

TA
165
.A45

5th ed.,
1913

CATALOG

TECHNICAL SUPPLY CO.

MATHEMATICAL INSTRUMENTS AND DRAWING MATERIALS



SCRANTON, PENNA.



Class _____

Book _____

FIFTH EDITION

Complete Catalog and Price List



Technical Supply Co.

Manufacturers and Importers

Drawing Instruments
Blue, Brown and Black Print Papers
and Cloths
Tracing Cloths and Papers
Surveying Instruments

Drawing Fluids
Scientific Books
Papers
Drawing Materials
Mathematical Instruments
Pencils

Factory, Warerooms, and General Offices
Scranton, Pa.

© 1913

TA 105
. A 45

*Press of
International
Textbook Company
Scranton, Pa.*



By *Author*
Geological Survey

JAN 29 1935



COPYRIGHT, 1913.
BY TECHNICAL SUPPLY CO.
SCRANTON, PA.

Red 10-2-41



THE "TEC" LINE

HOW IT WAS BUILT

NOT from a mass of mere material—such as one would expect to find in a technical supplies stock—but material selected as a result of long practical experience and continuous experimentation.

It has been the policy of "Tec" to take one of its products at a time, and by study, investigation, comparison, and experiment, raise the standard as high as money and science would permit.

As a result of such serious consideration, the "Tec" Line today stands alone. It stands for quality. It is further backed up with a trade mark that in itself is a sufficient guarantee to cover any peculiar requirement that might arise.

We have endeavored to be brief, yet comprehensive, in the descriptions of our goods and at the same time truthful and conservative in our claims for their respective qualities. We make this claim for originality in the make-up of our catalog: every page has been made up and printed in our own establishment, and every cut and engraving is a faithful representation of the goods in our stock.

The trade mark "TEC" stands for quality; the longevity, wear, and honesty of a product rather than its low price; but our price will be as low as large purchases can make it; not as low as cheapening the product can make it.

We thank the trade for the generous support given us, and respectfully solicit a continuation of your inquiries and orders.

TECHNICAL SUPPLY CO.



Reg. U. S.
Pat. Off.



MAIL ORDERS

For the benefit of our customers and those located beyond reach of our representatives and dealers, we maintain a mail-order department of the most modern type.

Care is used in selecting only perfect material for shipment and where possible, goods are shipped the same day order is received.

Material wanted and not listed in this catalog will be located for you. We are glad to work with our friends and put at your disposal the services of our entire organization.

Ask for any information you want whenever and as often as you may want it.

ORDERING

When ordering goods please give shipping directions and whether you want your order sent by freight, express, or mail.

When no directions are given, we will ship goods the safest, quickest, and most economical way.

HOW TO REMIT

Remittances should be made either by **bank draft** payable to our order, **post-office money order**, or **express money order**. If goods are ordered by express C. O. D., a remittance must be sent sufficient to cover express charges both ways in event of non-acceptance. Do not request orders less than \$10 sent by express C. O. D. It often costs more to send smaller orders by express than by mail, and you incur additional expense, being required to pay charges for returning money on all C. O. D. shipments. Collection charges can be saved and goods delivered more promptly by making full remittance when sending order.

We accept stamps for amounts under \$1. If cash is sent by mail, letter should be registered.

Firms or persons who have never had an account with us, who wish to order goods should send **first-class reference** or **remittance with order**. Failure to do so delays shipments pending necessary inquiries.

GENERAL REMARKS

Payment in advance is required for any special articles made to order.

If any goods do not prove satisfactory, notify us at once. Complaints will receive immediate investigation.

Keep this catalog intact; do not cut it; you may want something that has been cut out.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



DRAWING PAPER

In making up this list we have selected only those papers—having all those qualifications good drawing papers should have. The line presented here is complete and samples of any or all papers will be sent upon request, for your consideration.

A complete set of samples of all Drawing Papers has been incorporated in our Sample Book. A copy of this handy little volume is yours for the asking.

1. **"Tec Bond."**—A tough, light-weight paper, suitable for maps or drawings. Semitransparent.

Royal	19 × 24 inches, per quire, \$.80
Imperial	22 × 30 inches, per quire, 1.00
Double Elephant	27 × 40 inches, per quire, 1.70

3. **"Prep" Drawing.**—A German white drawing paper suitable for school use; takes ink and water color, and erases well.

Cap	14 × 17 inches, per quire, \$.20
Demy	15 × 20 inches, per quire, .35
Royal	19 × 24 inches, per quire, .65
Imperial	22 × 30 inches, per quire, 1.00
Double Elephant	27 × 40 inches, per quire, 1.80

- 4B. **"Junior" Buff Drawing.**—Exceptionally hard-grained surface. Strong enough to withstand unusually rough handling and quiet and restful to the eyes in all artificial lights. Watermarked "I. C. S."

Demy	15 × 20 inches, per quire, \$.90
Royal	19 × 24 inches, per quire, 1.55
Imperial	22 × 30 inches, per quire, 2.20
Double Elephant	27 × 40 inches, per quire, 3.60

- 4W. **"Junior" White Drawing.**—Exceptionally hard-grained surface; very strong; admits of much erasing and handling. Watermarked "I. C. S."

Demy	15 × 20 inches, per quire, \$.90
Royal	19 × 24 inches, per quire, 1.55
Imperial	22 × 30 inches, per quire, 2.20
Double Elephant	27 × 40 inches, per quire, 3.60

5. **"Alumnus."**—A fine, smooth surface white drawing paper, of pure white color, suitable for fine line work; erases perfectly; exceptionally strong. For machine drawings involving complicated detail, this paper has no equal.

Royal	19 × 24 inches, per quire, \$1.50
Imperial	22 × 30 inches, per quire, 2.25
Double Elephant	27 × 40 inches, per quire, 3.50

6. **"Princps."**—Highest grade cream drawing paper.

Royal	19 × 24 inches, per quire, \$1.15
Imperial	22 × 30 inches, per quire, 1.70
Atlas	24 × 36 inches, per quire, 2.30
Double Elephant	27 × 40 inches, per quire, 2.80

7. **"Tec" Buff Drawing.**—A very popular paper in large drafting rooms, as its color and strength allow it to be roughly handled without soiling or breaking. Erases perfectly; takes ink, pencil, and color.

Royal	19 × 24 inches, per quire, \$1.05
Imperial	22 × 30 inches, per quire, 1.50
Atlas	24 × 36 inches, per quire, 2.00
Double Elephant	27 × 40 inches, per quire, 2.50



DRAWING PAPER—Continued

8. "Scranton."—A good grade buff drawing paper.
- | | |
|-----------------------|-----------------------------------|
| Royal | 19 × 24 inches, per quire, \$.75 |
| Imperial | 22 × 30 inches, per quire, 1.25 |
| Atlas | 24 × 36 inches, per quire, 1.50 |
| Double Elephant | 27 × 40 inches, per quire, 2.50 |
9. "Seneca."—A natural white drawing paper; pure stock. Erases perfectly and especially adapted to water color and ink.
- | | |
|-----------------------|-----------------------------------|
| Royal | 19 × 24 inches, per quire, \$1.05 |
| Imperial | 22 × 30 inches, per quire, 1.50 |
| Double Elephant | 27 × 40 inches, per quire, 2.50 |

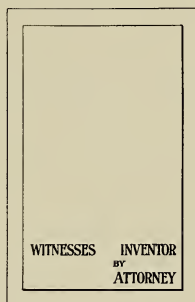
WATER COLOR, ILLUSTRATION, AND CRAYON PAPERS

14. "Whatman's" Hand-Made Drawing Paper is made in three grades. H. P. indicates Hot Pressed, which on account of its smooth surface is used for pencil and very fine line drawings. C. P. is Cold Pressed, indicating a fine grained surface suited to general illustrating and water-color drawing. Rough (Torchon Paper) because of its coarse surface is admirably suited to bold drawing, sketching, and heavy water-color work.
- | | |
|-----------------------|-----------------------------------|
| Cap | 13 × 17 inches, per quire, \$.75 |
| Demy | 15½ × 20 inches, per quire, 1.00 |
| Medium | 17½ × 22 inches, per quire, 1.60 |
| Royal | 19½ × 24 inches, per quire, 2.00 |
| Super Royal | 19 × 27 inches, per quire, 2.50 |
| Imperial | 22 × 30 inches, per quire, 3.00 |
| Double Elephant | 27 × 40 inches, per quire, 5.75 |
| Antiquarian | 31 × 52 inches, per sheet, 1.35 |
15. "Whatman's" Hand-Made Drawing Paper.—Rough.
- | | |
|-----------------------|-----------------------------------|
| Imperial | 22 × 30 inches, per quire, \$3.00 |
| Double Elephant | 27 × 40 inches, per quire, 5.75 |
16. "Whatman's" Hand-Made Drawing Paper.—Extra heavy.
- | | Per Quire | | Per Sheet | |
|--|-----------|---------|-----------|---------|
| | 90-lb. | 140-lb. | 90-lb. | 140-lb. |
| Imperial, 22 × 30 inches, H. P. or C. P. | \$ 5.00 | \$ 7.50 | \$.25 | \$.35 |
| | 210-lb. | 210-lb. | 210-lb. | 210-lb. |
| Double Elephant, 27 × 40 inches, H. P. | | | | |
| or C. P. | 12.00 | 15.00 | .60 | .75 |
17. "Tec" Solar Print and Illustration Paper.—Thin; for finest illustrating and crayon work.
- | | |
|----------------|-----------------------------------|
| Imperial | 22 × 30 inches, per quire, \$2.00 |
|----------------|-----------------------------------|
18. "Tec" Solar Print and Illustration Paper.—Medium.
- | | |
|-----------------------|-----------------------------------|
| Double Elephant | 30 × 40 inches, per quire, \$3.00 |
|-----------------------|-----------------------------------|
19. "Charcoal Paper," White
- | | |
|-------------|-----------------------------------|
| Royal | 19 × 25 inches, per quire, \$.60 |
|-------------|-----------------------------------|
20. "Michallet"
- | | |
|-------------|-----------------------------------|
| Royal | 19 × 25 inches, per quire, \$.90 |
|-------------|-----------------------------------|



“TEC” BRISTOL BOARDS

Liberal Samples on request



25. “Tec” “Patent Office” Bristol Boards, 3-Ply.—Possess all the requirements of the U. S. Patent Office, for pen and ink work; will stand erasing perfectly. Can be rolled without injury.

10 × 15 inches, plain per gross, \$ 6.00; per dozen, \$.60

15 × 20 inches, plain per gross, 12.00; per dozen, 1.20

10 × 15 inches, printed per gross, 8.00; per dozen, .72

26. “Tec” Bristol Board, 2-Ply.—The best Bristol Board on the market. Hard surface and stands erasing and scratching to perfection. Used by illustrators for the finest pen work.

In sheets 22 × 32 inches.....per dozen, \$3.00

- 26A. “Tec” Bristol Board, 3-Ply.—Same description as No. 26.

In sheets 22 × 32 inches.....per dozen, \$4.00

27. “Reynolds” Bristol Board.

	2 ply	3 ply	4 ply
Cap 12½ × 15½ inches, per dozen,	\$.60	\$.95	\$1.20
Demy 14½ × 18½ inches, per dozen,	1.00	1.40	1.90
Medium 16½ × 20½ inches, per dozen,	1.30	1.90	2.60
Royal 18½ × 22½ inches, per dozen,	1.60	2.50	3.30
Imperial 21½ × 28½ inches, per dozen,	3.20	4.80	6.40

22. “Tec” Illustration Board.

20 × 30 inches each, \$.30

22 × 30 inches each, .35

30 × 40 inches each, .60

24. Winsor & Newton’s “Monochrome” Illustrating Board.

20 × 30 inches each, \$.30

30 × 40 inches each, .60

29. “Mounting” and “Mat” Boards, in all colors and surfaces. These Boards are well adapted for the ornamental glass trade, for mounting photographs and drawings; manufactured of superior stock and take a smooth bevel.

30 × 40 inches each, \$.25



DETAIL PAPERS IN ROLLS

Made from selected paper stock. Liberal samples will be mailed on request.

32. "Standard" Detail Paper.—Buff color. Has a good grained drawing surface. Erases perfectly. Will not get brittle, lies flat on the drawing board without buckling, and stands rough handling.

36, 42, 48, and 54 inches wide, and three thicknesses—medium, thick, and extra thick.

In rolls of about 100 lb., per lb.....\$.12

	60 Wt. Medium	80 Wt. Thick	100 Wt. Extra Thick
36 inches wide.....per 50 yards,	\$2.30	\$2.50	\$2.80
42 inches wide.....per 50 yards,	2.50	3.00	3.40
48 inches wide.....per 50 yards,	3.00	3.60	4.00
54 inches wide.....per 50 yards,	3.30	4.30	4.60

33. "Standard" Detail Paper.—G. G. surface, of same stock and properties as described under No. 32.

In rolls of about 100 lb., per lb.....\$.12

	60 Wt. Medium	80 Wt. Thick	100 Wt. Extra Thick
36 inches wide.....per 50 yards,	\$2.30	\$2.50	\$2.80
42 inches wide.....per 50 yards,	2.50	3.00	3.40
48 inches wide.....per 50 yards,	3.00	3.60	4.00
54 inches wide.....per 50 yards,	3.30	4.30	4.60

34. "Standard" Detail Paper.—Ribbed surface, of same stock and properties as described under Nos. 32 and 33.

In rolls of about 100 lb., per lb.....\$.12

	60 Wt. Medium	80 Wt. Thick	100 Wt. Extra Thick
36 inches wide.....per 50 yards,	\$2.30	\$2.50	\$2.80
42 inches wide.....per 50 yards,	2.50	3.00	3.40
48 inches wide.....per 50 yards,	3.00	3.60	4.00
54 inches wide.....per 50 yards,	3.30	4.30	4.60

Drawing Papers in Rolls



Reproductions of Some of Our Labels

In selecting this important part of the "Tec" line, extraordinary care and effort were used that would satisfy the most exacting requirements of artists and draftsmen.

39. "Princes" Drawing Paper.—The highest grade Cream Drawing Paper.

	50 yards	10 yards
24 inches wide	\$ 4.00	\$1.00
27 inches wide	4.70	1.10
30 inches wide	5.60	1.25
36 inches wide	6.30	1.45
42 inches wide	8.30	1.80
54 inches wide	9.50	2.40
62 inches wide	11.50	2.80

In 50-lb. Rolls, above widths, 35c per lb.

40. "Tec" Buff Drawing Paper.—A high-grade Cream Drawing Paper. Its fine color is not only resting to the eye but permits much handling without soiling. This property, in connection with its exceptional strength, fine erasing qualities, and its ability to withstand folding without breaking, has made it a popular paper in large mechanical drafting rooms and engineering offices.

In rolls of about 50 pounds, 24, 27, 30, 36, 42, 54, and 62 inches wide.

Per pound	\$.30		
	50 yards	10 yards	1 yard
24 inches wide	\$ 3.70	\$.90	\$.10
27 inches wide	4.20	1.00	.12
30 inches wide	5.00	1.10	.14
36 inches wide	5.70	1.30	.16
42 inches wide	7.50	1.60	.20
54 inches wide	8.50	2.10	.25
62 inches wide	10.00	2.50	.30



DRAWING PAPERS IN ROLLS—Continued

41. "Scranton."—A good grade Buff Paper, in rolls 30, 36, 42, 54, and 62 inches wide.

	100 yards	50 yards	25 yards	1 yard
30 inches wide	\$ 7.45	\$3.95	\$2.15	\$.11
36 inches wide	8.90	4.70	2.55	.13
42 inches wide	12.10	6.40	3.40	.17
54 inches wide	13.40	7.30	3.85	.19
62 inches wide	15.50	8.00	4.25	.22

In rolls of about 45 pounds.

Per pound\$.25

43. "Seneca" White Drawing Paper, same as described under No. 9, in sheets. Good strength, slightly grained surface; suitable for pen, pencil, and water color.

In rolls of about 45 pounds, 24, 27, 30, 36, 42, 54, and 62 inches wide. Per pound\$.38

	50 yards	10 yards	1 yard
30 inches	\$ 7.00	\$1.60	\$.18
36 inches	8.00	1.75	.20
42 inches	9.00	2.00	.25
54 inches	14.00	3.00	.35

- 45B. "Junior" Buff Drawing Paper.—Hard-grained surface. Strong enough to withstand unusually rough handling. Color easy and pleasant for the eyes in any artificial light. Watermarked "I. C. S."

In rolls of about 45 pounds, 36 and 42 inches wide.

Per pound\$.40

	50 yards	10 yards	1 yard
36 inches	\$10.00	\$2.25	\$.25
42 inches	12.00	2.75	.30

- 45W. "Junior" Drawing Paper.—Hard-grained surface. Very strong; pure white color; can be folded without breaking; erases perfectly. Watermarked "I. C. S."

In rolls of about 45 pounds, 36 and 42 inches wide.

Per pound\$.40

	50 yards	10 yards	1 yard
36 inches wide	\$10.00	\$2.25	\$.25
42 inches wide	12.00	2.75	.30

46. "Prep" White Drawing Paper.—Recommends itself for its low price. Takes ink, pencil, and color. For preliminary drawings and detail.

In rolls of about 45 pounds, 36 and 42 inches wide.

Per pound\$.25

	50 yards	10 yards	1 yard
36 inches wide	\$4.50	\$1.00	\$.12
42 inches wide	6.00	1.30	.15



TECHNICAL SUPPLY COMPANY **SCRANTON, PA.**

DRAWING PAPERS IN ROLLS—Continued

50. **"Samson."—Medium.**—A strong white drawing paper; smooth surface, with very slight grain. Erases perfectly; withstands the roughest handling without breaking or tearing.

In rolls of about 50 pounds, 36, 42, and 62 inches wide.

Per pound	\$.45	
	10 yards	1 yard
36 inches wide	\$2.10	\$.25
42 inches wide	2.70	.30
62 inches wide	4.10	.45

51. **"Samson."—Thick.**—Same stock as No. 50, but heavier.

In rolls of about 50 pounds, 36, 42, and 62 inches wide.

Per pound	\$.45	
	10 yards	1 yard
36 inches wide	\$2.70	\$.30
42 inches wide	3.25	.40
62 inches wide	4.75	.50

"TEC" EGGSHELL PAPERS

These papers are made from pure linen stock, with fine pitted surface, and preserve their natural beauty of appearance indefinitely, unlike cheaper Eggshell Drawing Paper, which either peels or breaks with age and discolors badly. "Tec" Eggshell papers are as good as can be made.

52. **"Tec" Eggshell.—Medium.**—Pitted surface. For all kinds of finished drawings, pencil, ink, water-color, and air-brush work.

In rolls of about 50 pounds, 36, 42, 58 inches wide.

Per pound	\$.50	
	10 yards	1 yard
36 inches wide	\$3.20	\$.34
42 inches wide	3.60	.38
58 inches wide	4.60	.48

54. **"Tec" Eggshell.—Smooth Surface.**—Same stock as No. 52.

In rolls of about 50 pounds, 36, 42, 58 inches wide.

Per pound	\$.50	
	10 yards	1 yard
36 inches wide	\$3.20	\$.34
42 inches wide	3.60	.38
58 inches wide	4.60	.48

58. **"Tec" Eggshell.—Extra Thick.**—Pitted surface. Same stock as Nos. 52 and 54.

In rolls of about 50 pounds, 58 inches wide.

Per pound	\$.50	
	10 yards	1 yard
58 inches wide	\$6.20	\$.70



DRAWING PAPERS IN ROLLS—Continued

66. **"Tec" Bond Drawing Paper.**—Is semitransparent and may be used for tracing. Used by surveyors and civil engineers. Blueprints can be taken direct from drawings on this paper in drawing ink.
- | | |
|---------------------|------------------------------|
| 36 inches wide..... | per roll of 50 yards, \$3.50 |
| 42 inches wide..... | per roll of 50 yards, 4.00 |
67. **"Tesco" Bond Thin.**—A tracing and sketching paper of exceptionally fine quality. Suited to ink and color sketches and for blueprinting.
- | | |
|---------------------|------------------------------|
| 30 inches wide..... | per roll of 20 yards, \$1.75 |
| 36 inches wide..... | per roll of 20 yards, 2.50 |
| 42 inches wide..... | per roll of 20 yards, 3.25 |
- 67A. **"Tesco" Bond Medium Drawing Paper.**—Especially suited for transparentizing with "Pellucidine," described elsewhere in this volume. It is a quick absorbing and ready drying paper, that transparentizes rapidly.
- | | |
|---------------------|------------------------------|
| 30 inches wide..... | per roll of 20 yards, \$2.00 |
| 36 inches wide..... | per roll of 20 yards, 3.00 |
| 42 inches wide..... | per roll of 20 yards, 4.00 |
68. **"Apache" Tracing and Sketching Paper.**—For ink or water-color sketches and tracing work; blueprints can be taken from drawings made on this paper. Will not wrinkle or buckle when water colors are used.
- | | |
|---------------------|------------------------------|
| 31 inches wide..... | per roll of 50 yards, \$2.00 |
| 36 inches wide..... | per roll of 50 yards, 2.50 |
| 62 inches wide..... | per roll of 50 yards, 3.75 |

MOUNTED DRAWING PAPERS IN SHEETS

Besides the sizes listed below, we furnish any size sheets of our various papers, mounted to order, and mount maps in any style desired. All mounted sheets furnished with muslin carefully trimmed to edges unless otherwise specified.

70. **"Whatman's" Mounted.**
- | | |
|----------------------|-------------------|
| 19½ × 24 inches..... | per sheet, \$.38 |
| 22 × 30 inches..... | per sheet, .45 |
| 27 × 40 inches..... | per sheet, .70 |
| 31 × 52 inches..... | per sheet, 1.80 |
71. **"Whatman's" Double Mounted, for atlas work.** Specify surface desired. Paper on both sides of muslin.
- | | |
|---------------------|-------------------|
| 22 × 30 inches..... | per sheet, \$.80 |
| 27 × 40 inches..... | per sheet, 1.25 |
72. **"Tec" Eggshell, No. 54.**—Smooth surface, mounted. Same stock as Nos. 52 and 58.
- | | |
|---------------------|-------------------|
| 22 × 30 inches..... | per sheet, \$.40 |
| 27 × 40 inches..... | per sheet, .80 |
73. **"Tec" Eggshell, No. 54.**—Double mounted.
- | | |
|---------------------|-------------------|
| 22 × 30 inches..... | per sheet, \$.75 |
| 27 × 40 inches..... | per sheet, 1.40 |

Mounted Drawing Paper in Rolls



These papers are mounted on heavy muslin, and are especially adapted for map work or other drawings intended to be preserved.

Our papers are mounted smooth and will not break if folded or handled.

We furnish any of our drawing papers mounted to order.

75. "Tec" Buff, Mounted.—The same paper as described under No. 40.

	Per 10 Yards	Yard
36 inches wide	\$6.00	\$.70
42 inches wide	6.75	.80
62 inches wide	9.25	1.00

76. "Seneca," Mounted.—The same paper as described under No. 43.

	Per 10 Yards	Yard
36 inches wide	\$6.50	\$.80
42 inches wide	7.30	.90
62 inches wide	10.25	1.20

77. "Samson," Mounted.—The same paper as described under No. 51.

	Per 10 Yards	Yard
31 inches wide	\$ 7.85	\$1.00
36 inches wide	8.85	1.20
62 inches wide	13.25	1.60

78. "Tec" Eggshell, Medium.—The same paper as described under No. 52.

	Per 10 Yards	Yard
36 inches wide	\$ 7.85	\$1.00
42 inches wide	8.85	1.10
58 inches wide	11.75	1.40

80. "Tec" Eggshell, Extra Heavy, Mounted.—The same paper as described under No. 58.

	Per 10 Yards	Yard
58 inches wide	\$13.00	\$1.60

MOUNTED DRAWING PAPERS IN ROLLS

(Continued)

82. "Tec" Eggshell.—Smooth; the same paper as described under No. 54.

	10 yards	1 yard
36 inches wide	\$ 7.85	\$1.00
42 inches wide	8.85	1.10
58 inches wide	11.75	1.40

90. Indestructible Paper Cloth.—Pliable and smooth; expressly made for drafting purposes, takes ink and pencil well, and erases perfectly.

36 inches wide.....per yard, \$.50



92. ADHESIVE TAPE

This tape is used for stretching drawing paper and for mending blue-prints, drawings, etc.

Will not deteriorate with age.

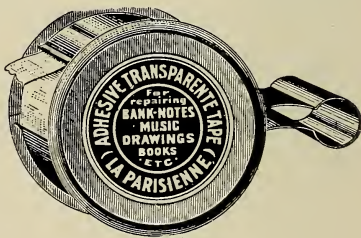
In boxes of 50 feet, $\frac{3}{8}$ -inch wide.

Each\$.25

FRENCH TRANSPARENT GUMMED PAPER

On Reels Containing 6 Yards

95. The most useful article ever placed on the American market. Should be on every desk and in every household. Invaluable for bookkeepers, architects, librarians, photographers, bank clerks, lawyers, musicians, etc. Every one will find it excellent for some purpose. It is perfectly transparent, and will not blur or blot when written over with ink. Always convenient. It will repair torn bank notes, manuscripts, blueprints, legal papers, drawings, music, photos, periodicals, etc.



95

Each\$.10
Per dozen 75



“TEC” TRACING CLOTH

While the fact that it is “Tec” Cloth is usually a sufficient guarantee of its quality and worth to those who have used it—to the uninitiated, some explanation is due.

In the first place “Tec” Cloth was made to answer the constantly increasing demand for a Cloth combining high quality with economy.

The material used in coating the fine fabric is selected with the greatest care. Cheap or doubtful material is never used on “Tec” Cloth. During the heavy calendering, when the coating is rolled into a smooth even surface and the cloth receives its remarkable finish, every detail of the process is superintended by skilled workmen.

In “Tec” Cloth there is a conspicuous absence of pinholes and surface abrasions. A number of erasures can be made on the same spot without injury to the cloth—and its transparency is quite pronounced.

“Tec” Cloth has ever met with favor at the hands of Government engineers, electrical and steel companies, manufacturers of machinery, architects and engineers generally, to whom quality and economy were factors of greatest consideration.

Liberal samples sent on request.

125. “Tec” Tracing Cloth.

Width in inches,	30	36	42	48	54
24-yard rolls	\$7.25	\$8.10	\$11.00	\$14.00	\$15.80

Other Tracing Cloths

110. “Kohinoor” Tracing Cloth.

Width in inches,	30	36	42	48	54
24-yard rolls	\$8.35	\$9.25	\$12.35	\$16.50	\$17.50

120. “Imperial” Tracing Cloth.

Width in inches,	30	36	42	48	54
24-yard rolls	\$8.10	\$9.00	\$12.10	\$16.00	\$17.00

“TEC” TRACING CLOTH POWDER

130. White, in tin shakers.....	per can, \$.15
130F. Fullers Earth, in tin shakers.....	per can, .15

Tracing Paper in Rolls



- 140. "Moro" Detail Tracing Paper.—Manila stock for detail work.
40 inches wide per 100-yard roll, \$2.50
48 inches wide per 100-yard roll, 3.00
- 142. Oneida Tracing Paper, Glazed.—Exceptionally transparent. Good erasing qualities and suited to both ink and pencil.
36 inches wide.....per 50-yard roll, \$2.00
- 143. Oneida Tracing Paper, Unglazed.—Otherwise the same as 142.
36 inches wide.....per 50-yard roll, \$2.00
42 inches wide.....per 50-yard roll, 2.30
- 145. "Iroquois" Tracing Paper.—Thin parchment; strong and transparent.
42 inches wide.....per 20-yard roll, \$2.50
- 147. "Cree" Tracing Paper.—Unglazed; dull finish; very strong and transparent. Retains its white color and will not become brittle.
42 inches wide.....per 20-yard roll, \$1.30
- 148. "Sioux" Tracing Paper.—Medium.—Transparent; very suitable for tracing from blueprints.
42 inches wide.....per 20-yard roll, \$1.80
- 150. "Sioux" Tracing Paper.—Thick.
42 inches wide.....per 20-yard roll, \$2.40
- 152. "Carlisle" Tracing Paper.—Medium.—Light color, smooth and transparent.
42 inches wide.....per 20-yard roll, \$2.00



TRACING PAPER IN ROLLS—Continued

153. "Carlisle" Tracing Paper.—Thick.
42 inches wide.....per 20-yard roll, \$2.70
154. "Germania" Tracing Paper.—A thin, unglazed, pure white paper for full size details. A fine surface; an excellent inking surface.
57 inches wide.....per 44-yard roll, \$4.00
160. "Parchment" Tracing Paper.—Medium.—Very strong and transparent.
37 inches wide.....per 20-yard roll, \$3.50
162. "Parchment" Tracing Paper.—Thick.
37 inches wide.....per 20-yard roll, \$4.20
163. Imperial Tracing Paper.—Sometimes used as a substitute for cloth.
Dull back.
40 inches wide.....per 20-yard roll, \$2.50
164. "Azure" Tracing Paper.—A tough transparent paper, light-blue tint; answers as a substitute for tracing cloth.
40 inches wide.....per 20-yard roll, \$3.60
165. "Vellum" Tracing Paper.—Strong, transparent; takes ink and water color without buckling.
30 inches wide.....per 20-yard roll, \$2.75
36 inches wide.....per 20-yard roll, 3.50
42 inches wide.....per 20-yard roll, 4.25
- 165F. Frisco Vellum.—Very strong and transparent. No chalking necessary; takes ink or water color on either side and will not become brittle with age.
36 inches wide.....per 20-yard roll, \$4.00
42 inches wide.....per 20-yard roll, 5.00

TRACING PAPER IN SHEETS

166. "Mica" Tracing Paper.—Thin and clear.
Imperial.....22×28 inches, per quire, \$1.40
167. "Vegetable" Tracing Paper.—Tough and transparent.
Cap 13×17 inches, per quire, \$.90
Royal 19×25 inches, per quire, 2.00
168. White Tracing Paper.—Dull finish. Very strong and transparent; retains its white color and does not become brittle.
15×20 inches.....per quire, \$.90
20×30 inches.....per quire, 2.00

Other sizes quoted on application.



Anthracite Black Line, Direct Process Paper

Sometimes a print resembling the original tracing is desired. For this purpose "Tec" Black Line, Direct Process, is a valuable factor in the drafting room.

It gives a black line positive, direct from the tracing. Preference only dictates its use, as it has no distinct advantage over the regular Blue or Sepia papers. No developer needed.

	30	36	40	42
170. Mailing weight	\$2.00	\$2.50		\$3.00
171. Medium	2.00	2.50		3.00
172. Heavy	2.25	2.75		3.25
173. Extra heavy	2.50	3.00		3.75
174. Water color, white.....	3.00	3.50		4.00
175. Water color, tinted.....	3.25		\$4.25	
176. Smooth	2.75		3.50	
177. Waterproof mounted	7.50	9.00		11.00
178. Cloth 32-inch, \$8.75				11.00
10-yard rolls.				



TECHNICAL SUPPLY COMPANY SCRANTON, PA.



"TEC" BLUE AND BROWN PRINT PAPERS AND CLOTHS

"Tec" Blue and Brown Process Papers and Cloths are sensitized in one of the cleanest, most "up-to-the-minute" factories devoted exclusively to this purpose.

The sensitized coating is under the constant observation of our own chemical laboratory where every precaution is used to keep "Tec" papers and cloths up to their present high standard—and raise this standard still higher if science and money can ever find the means of doing it.

The coating room is equipped with machinery built after our own ideas of mechanical efficiency. These machines are always under inspection and kept tuned up to accuracy and uniformity in production.

The paper stock used is made only for sensitizing purposes and must be chemically pure before we can accept it. Any antagonistic chemical property in the paper would offset the sensitizing qualities of the finished product.

Such extreme caution cannot be used by manufacturers whose sole aim is to produce great quantities of paper to be sold at a low price.

Besides, the paper stock is loft dried before it enters the coating rooms.

As the chief quality of a blueprint paper lies in its keeping qualities, we devote extraordinary care to the proper drying of our products. All moisture is eradicated by blowers and other mechanical apparatus, and the rolls are quickly and carefully wrapped and packed for shipment.

We do not claim to have invented anything radically new in Blue and Brown Process Papers, nor do we wish to surround the manufacture of "Tec" Papers with an air of mystery that forbids the customer a closer acquaintance with the making of the goods he uses daily. We only claim that the "Tec" Blue Process Papers are as good as human brains, care, and ingenuity can make them; and in quality they naturally rank higher than competitive papers made under less favorable conditions.

GRADES OF PAPER

We make four grades of Blue Process Paper, each in four weights. They differ in quality in the grade of paper stock used. Our finest grades are of best selected rag stock and loft dried. Our fine grades are of good stock chemically pure, of good color, and have exceptional wearing qualities and strength, both when wet and dry.

PRINTING SOLUTIONS

We make "Tec" Blue Process Papers in five printing speeds: "Regular," requiring from 3 to 5 minutes for exposure in sunlight; "Rapid," requiring about 1 minute exposure in sunlight; and "Electric Rapid," printing in from about 20 to 30 seconds in sunlight; 2X, printing in from 15 to 30 seconds, and 3X requiring but 10 to 20 seconds depending upon the time of year.

We fully guarantee the keeping qualities of any of our leading papers for 30 days.

BLUEPRINT PAPERS FOR EXPORT

"Tec" Blue and Brown Print Papers and Cloths are especially prepared and packed for export. We prepare export orders with a special solution, pack in special tubes, and guarantee them to keep perfectly in any climate. The age of our export paper varies from 3 to 4 months.

We recommend "Tec" Finest Grade for export purposes.



TECHNICAL SUPPLY COMPANY SCRANTON, PA.

“Tec” Blueprint Paper

FINE QUALITY

These descriptions cannot do justice or convey any real impression of the quality of these famous papers, and for that reason we are anxious for you to see the “real goods.” A complete set of samples will be sent on request.



Reduced facsimiles of our labels

The papers listed below are recommended for all blueprint work where a really good paper is necessary—but the character of the work does not permit the use of a high-grade paper.

The prints made from this paper develop a clear uniform blue with a fine contrast in the clean white lines. The economy lies in the paper stock used which does not permit long filing and continuous handling. It is well suited to repair work and for attaching to orders. Used also by manufacturers sending blueprints of small machines to prospective customers.

185. “Tec” Medium Satin.

Width in inches,	27	30	36	42
Per roll of 10 yards, prepared.....	\$.75	\$.80	\$.90	\$ 1.00
Per roll of 50 yards, prepared.....	2.80	3.00	3.50	4.00

186. “Tec” Thick Satin.

Width in inches,	27	30	36	42
Per roll of 10 yards, prepared.....	\$.95	\$ 1.00	\$ 1.10	\$ 1.20
Per roll of 50 yards, prepared.....	3.80	4.00	4.50	5.00

187. “Tec” Medium Parchment.

Width in inches,	27	30	36	42
Per roll of 10 yards, prepared.....	\$.85	\$.90	\$ 1.00	\$ 1.10
Per roll of 50 yards, prepared.....	3.30	3.50	4.00	4.50

188. “Tec” Thin Parchment.

Width in inches,	27	30	36	42
Per roll of 10 yards, prepared.....	\$.65	\$.70	\$.80	\$.90
Per roll of 50 yards, prepared.....	2.50	2.60	3.00	3.50

The above papers prepared with either our Regular, Rapid, Electric, 2X, or 3X Printing Solutions. In ordering, please specify solutions desired.



UNPREPARED BLUEPRINT PAPERS

We are always ready to furnish Unprepared Blueprint Paper from stock in original rolls of about 150 pounds. As our papers are kept fresh and under constant inspection, the buyer is well protected and assured of good, clean stock.

These papers are used by many large concerns as detail and sketching paper.

180. 181. 183. **Unprepared Blueprint Papers.**—50 per cent. rag. In rolls, 24", 30", 36", 42", 48", and 54" wide.

180. **Medium.** Average thickness, .004 $\frac{1}{4}$. Average strength, 38 on Mullen test.....Per pound, \$.16

181. **Thick.** Average thickness, .006; average strength, 46 on Mullen test. Per pound, \$.16

183. **Thin.** Average thickness, .003. Average strength, 28 on Mullen test.....Per pound, \$.20

195. 196. 199. **Unprepared Blueprint Paper.**—100 per cent. rag stock. Water-marked "T. S. Co. Princesps." In rolls, 24", 30", 36", 42", 48", 54".

195. **Medium.** Average thickness, .004. Average strength, 42 on Mullen test.....Per pound, \$.24

196. **Thick.** Average thickness, .006. Average strength, 48 on Mullen test.....Per pound, \$.24

199. **Thin.** Average thickness, .003. Average strength, 32 on Mullen test.....Per pound, \$.30

226. 226 $\frac{1}{2}$. 226T. **Unprepared Blueprint Paper.**—Imported. Because of its excellent matt surface is suited to fine photographic work. Water-marked "T. S. Co. REX." In rolls, 30", 36", 42", and 54".

226. **Medium..** Average thickness, .005. Average strength, 55 on Mullen test.....Per pound, \$.45

226 $\frac{1}{2}$. **Thick.** Average thickness, .006 $\frac{1}{2}$. Average strength, 65 on Mullen test.....Per pound, \$.48

226T. **Thin.** Average thickness, .004. Average strength, 48 on Mullen test Per pound, \$.45

227. 227H. 227 $\frac{1}{2}$. 228. **Unprepared Blueprint Paper.**—Exceptionally well selected chemically pure rag stock. Watermarked "T. S. Co. MAXIMUS."

227. **Medium.** Average thickness, .004. Average strength, 45 on Mullen test. Per pound, \$.38

227H. **Medium Heavy.** Average thickness, .004 $\frac{1}{2}$. Average strength, 55 on Mullen test.....Per pound, \$.38



227½. **Thick.** Average thickness, .006½. Average strength, 65 on Mullen test.....Per pound, \$.38

228. **Thin.** Average thickness, .003. Average strength, 38 on Mullen test.....Per pound, \$.40

“TEC” UNPREPARED BLUEPRINT CLOTH

200. **Medium Weight.**—Same thickness and quality as 215 Prepared.

	Width in inches,	30	36	42
Per yard		\$.25	\$.28	\$.39

200T. **Extra Thin.**—Same thickness and quality as 215T Prepared.

	Width in inches,	36	42
Per yard		\$.36	\$.46

“PRINCEPS” BLUEPRINT PAPERS

ALL-RAG STOCK. FINEST QUALITY

210. “Princepts” **Medium Satin.**—A medium weight paper of chemically pure all-rag stock, thickness .004. Average strength, 42 on Mullen test.

An excellent paper for shop, file, proposal blueprints, etc. Watermarked “T. S. Co. Princepts.”

	Width in inches,	27	30	36	42	54
Per roll of 10 yards, prepared...		\$1.05	\$1.10	\$1.20	\$1.30	\$1.75
Per roll of 50 yards, prepared...		4.30	4.50	5.00	5.50	7.50

211. “Princepts” **Medium Satin.**—A heavy weight blueprint paper of chemically pure rag stock. Average thickness, .006 inch. Average strength, 48 on Mullen test. An excellent paper for shop and record prints. Watermarked “T. S. Co. Princepts.”

	Width in inches,	27	30	36	42
Per roll of 10 yards, prepared.....		\$1.25	\$1.30	\$1.40	\$1.50
Per roll of 50 yards, prepared.....		5.30	5.50	6.00	6.50

214. “Princepts” **Thin.**—Chemically pure rag stock. Average thickness, .003. Average strength, 32 on Mullen test; intended for prints for mailing. Watermarked “T. S. Co. Princepts.”

	Width in inches,	27	30	36	42
Per roll of 10 yards, prepared.....		\$.95	\$1.00	\$1.10	\$1.20
Per roll of 50 yards, prepared.....		4.00	4.10	4.50	5.00

214T. “Princepts” **Extra Thin.**—Chemically pure rag stock. Average of thickness, .002. Average strength, 26 on Mullen test; intended for prints for mailing. Watermarked “T. S. Co. Princepts.”

“TEC” BLUEPRINT CLOTH

215. “Tec” **Blueprint Cloth.**—Medium weight. On account of its strength is preferred for prints intended for rough handling, especially in outdoor work. Average thickness, .005.

	Width in inches,	30	36	42
Per roll of 10 yards, prepared.....		\$3.25	\$4.00	\$5.00



215T. "Tec" Thin Blueprint Cloth—Extra thin; intended for record, outdoor work, and mailing. Average thickness, .003.

	Width in inches,	30	36	42
Per roll of 10 yards, prepared.....		\$4.25	\$5.00	\$6.00

"REX" MATT PAPER

216. "Rex" Brand Medium Matt Paper.—A high-grade imported paper, especially adapted for fine blueprints and blue-line prints made from Sepia negatives with white background. Watermarked "T. S. Co. Rex."

	Width in inches,	24	27	30	36	42	54
10-yard rolls		\$1.20	\$1.25	\$1.40	\$1.70	\$2.00	\$3.00
50-yard rolls		5.70	6.00	6.70	8.20	9.70	12.50

"MAXIMUS" BLUEPRINT PAPERS

SELECTED ALL-RAG STOCK

217. "Maximus" Paper, Medium Weight.—Average thickness about .004 inch, strength average 45. On account of great strength and toughness, Maximus papers are recommended for blueprints, intended to be filed for record or to stand much handling. Watermarked "T. S. Co. Maximus."

	Width in inches,	27	30	36	42
10-yard rolls		\$1.00	\$1.10	\$1.20	\$1.40
50-yard rolls		4.50	4.70	5.50	6.20

217H. "Maximus" Paper, Medium Heavy—Average thickness, .0045 inch; average strength, 55 points. A strong tough paper. A little heavier than 217 and therefore stronger. Watermarked "T. S. Co. Maximus."

	Width in inches,	27	30	36	42	54
10-yard rolls		\$1.15	\$1.30	\$1.60	\$1.90	\$2.90
50-yard rolls		5.50	6.20	7.70	9.20	12.00

217½. "Maximus" Thick Paper.—Average thickness, .0065 inch; average strength, 60 points on Mullen tester. Excellent paper for high-grade prints of maps and for shop use. Watermarked "T. S. Co. Maximus."

	Width in inches,	27	30	36	42	54
10-yard rolls		\$1.60	\$1.75	\$2.05	\$2.40	\$3.25
50-yard rolls		7.50	8.30	9.80	11.80	16.00

218. "Maximus" Paper Thin.—Average thickness, .003 inch; average strength, 38 points Mullen test. Very thin and tough; intended for prints for mailing, saving postage by its light weight. Watermarked "T. S. Co. Maximus."

	Width in inches,	30	36	42	54
10-yard rolls		\$.90	\$1.10	\$1.20	\$2.00
50-yard rolls		4.20	5.00	5.80	7.50



"Tec" Sepia Solar Papers

Scientifically Correct Brown Print and Negative Papers, For Making Dark-Brown Negative and Blue or Brown-Line Prints on Paper or Cloth.

The advantages of "Tec" Sepia Solar Paper are many, chief of which are the following:

1. It is simple and speedy in action.
2. It keeps well and will not become hard, brittle, or weak.
3. It produces a clean negative copy of the original on a rich deep-brown, opaque background.
4. It saves your original and will not spoil if overexposed.
5. It is rich in general effect and tone, and produces great durability, depth, and richness of color.
6. "Tec" Sepia Solar Prints can be added to, colored, or altered, the same as an original drawing without injury to the print.

Maps made with our "Tec" Sepia Solar Paper cannot be distinguished from the finest engraving or offset printing.

The "Tec" Sepia Solar Paper is an improvement on the many crude brown-print papers now on the market, more notably in the lasting qualities of the solution and the selected high-grade stock on which it is prepared. It is used by the United States Government and by several of the leading railroads and many manufacturing concerns.

DESCRIPTION

No. 219 Thin Paper is best suited for use as a negative. From this negative, as the original (in place of the tracing), can be produced.

Blue-line on white background prints by printing on regular blueprint paper or cloth with an exposure of about 8 minutes in bright sunlight, or on rapid blueprint paper or cloth with an exposure of about 4 minutes in bright sunlight.

Black-line on white background prints by printing on our No. 221 Sepia Paper or No. 222 Sepia Solar Cloth, with an exposure of about 8 minutes in bright sunlight. Sample of our Sepia Solar Papers for test purposes mailed on application.

Prints made by this process are permanent and will never fade.



For NEGATIVE and POSITIVE PRINTS



219. "Tec" Sepia Solar Paper; thin for negatives. Watermarked "Maximus."				
	Width in inches,	30	36	42
Per roll of 10 yards, prepared.....		\$2.00	\$ 2.50	\$ 3.00
Per roll of 50 yards, prepared.....		9.50	12.00	14.00

	Width in inches,	30	36	42
Per roll of 10 yards.....		\$2.00	\$ 2.50	\$ 3.00
Per roll of 50 yards.....		9.50	12.00	14.00

	Width in inches,	30	36	42
Per roll of 10 yards, prepared.....		\$ 2.75	\$ 3.25	\$ 3.75
Per roll of 50 yards, prepared.....		10.75	13.25	15.25

	Width in inches,	30	36	42
Per roll of 10 yards, prepared.....		\$6.00	\$7.50	\$9.00

	Width in inches,	30	36	42
Per roll of 10 yards, prepared.....		\$7.00	\$8.00	\$8.50
Fixing Salts and full directions sent with each roll				

For Permanently Fixing and Intensifying Sepia Prints

225. Per 1 pound..... .35

23



“PELLUCIDINE”

THE FAMOUS TRANSPARENTIZING FLUID

Applied to a detail drawing it is immediately transparentized, enabling you to get as clear and clean a print as though the drawing had been made on tracing cloth.

Old tracings, soiled from many handlings and grown opaque with age, are instantly cleaned and made transparent with Pellucidine.



Transparentizes Sepia or Brown Prints. Transparentize letters, contracts, specifications, etc.

Pellucidine is guaranteed to transparentize, cleanse, and waterproof without injury to the material upon which it is used. It leaves no grease, gum, or odor, and can be applied hot or cold under all climatic conditions.

It is the only perfect transparentizing fluid ever devised. Many big corporations will have nothing else in their drafting room.

Send for Complete Circular

One-quart cans	\$1.25
One-gallon cans	4.00

ERASING FLUIDS

235. “Tec” Erasing Fluid.—White.—For making alterations and additions on blueprints.
Per bottle\$.20
236. “Tec” Erasing Fluid.—Red.—For marking or coloring blueprints.
Per bottle\$.20
237. “Tec” Erasing Fluid.—Yellow.—For marking or coloring blueprints.
Per bottle\$.20
238. “Tec” Erasing Fluid.—Sepia.—For making alterations on “Tec” Sepia Solar Prints.
Per bottle\$.20



“PELLUCIDINE” PAPER

230A. To get the speediest and finest result, No. 69 “Tesco” Bond is recommended. It is a quick absorber and an exceedingly durable paper.

In rolls,

Per roll of 50 yards, 30 inches wide.....	per yard, \$.10
Per roll of 50 yards, 36 inches wide.....	per yard, .15
Per roll of 50 yards, 42 inches wide.....	per yard, .20

“PELLUCIDINE” CLOTH

230B. The most suitable cloth for transparentizing is our No. 128 “Tec”

Drawing Cloth. All lengths in stock at all times.

Per roll of 10 yards, 36 inches wide.....	per yard, \$.30
Per roll of 10 yards, 42 inches wide.....	per yard, .40

“PELLUCIDINE” BRUSH

230C. A soft brush is preferable to cotton or cloth, and is more economical.

We recommend our No. 1234 Badger Flowing Brush. This is well made and will last for years.

	1 in.	1½ in.	2 in.
Prices, each	\$.35	\$.45	\$.65

AIR-TIGHT METAL TUBES

FOR PRESERVING PAPERS



240

240.	31 inches long, for 50-yard roll.....	\$1.35
241.	37 inches long, for 50-yard roll.....	1.50
242.	43 inches long, for 50-yard roll.....	1.70
243.	31 inches long, for 10-yard roll.....	1.20
244.	37 inches long, for 10-yard roll.....	1.30
245.	43 inches long, for 10-yard roll.....	1.40

“TEC” STRAWBOARD TUBES

Paraffin lined, with closely fitting metal screw caps. Absolutely air-tight and moisture-proof. They are stronger than tin tubes and less liable to bend and dent in transit.



250

250.	28 inches long, for 10-yard roll.....	\$.20
251.	31 inches long, for 10-yard roll.....	.25
252.	37 inches long, for 10-yard roll.....	.30
253.	43 inches long, for 10-yard roll.....	.40

PASTEBOARD TUBES

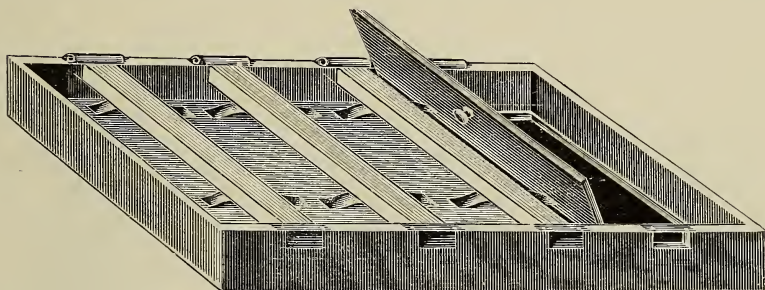
For preserving and mailing drawings, blueprints, and tracings.

260.	2½-inch diameter, 31 inches long.....	each, \$.10
261.	2½-inch diameter, 37 inches long.....	each, .12
262.	2½-inch diameter, 43 inches long.....	each, .15

For export shipments of Blue or Brown Process Papers, we recommend packing in our Nos. 250-253 tubes. Special prices quoted when ordered with paper.

BLUEPRINT FRAMES

MADE OF BEST SEASONED HARDWOOD. WARRANTED NOT TO SHRINK. NEATLY FINISHED WITH BRASS MOUNTINGS.
FURNISHED WITH OR WITHOUT FELT OR GLASS



264

	Frames Only	With Felt Cushions	With Polished Plate Glass
263. 18×22 inches	\$ 8.75	\$11.75	\$15.65
264. 20×24 inches	9.40	12.95	18.75
265. 24×30 inches	11.25	16.80	24.40
266. 30×42 inches	15.00	24.40	42.00
267. 36×60 inches	27.50	43.60	83.55

Nos. 263, 264, and 265 furnished with double-thick glass instead of polished plate glass for \$3 less.

Any size frame of different pattern made to order on shortest notice.

We recommend using the heavy plate glass, as more durable than double-thick glass.

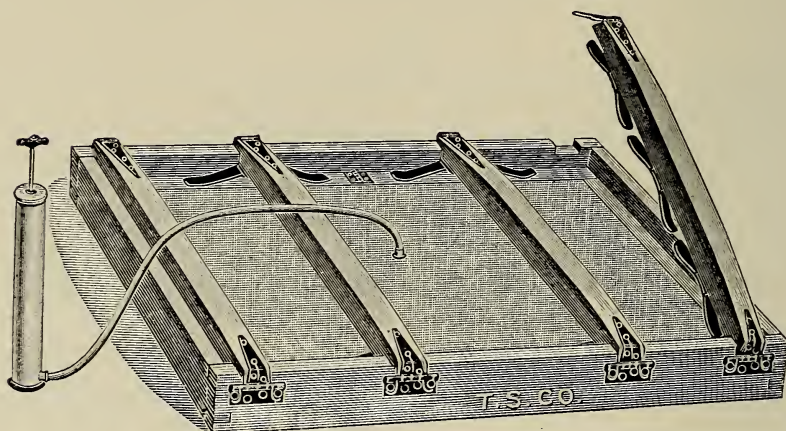
SMALLER FRAME FOR OFFICE USE

268. 11×16 inches, with double-thick glass and pad.....	\$3.75
STUDENT'S PRINTING FRAME	
269. 16×21 inches, with double-thick glass and pad.....	4.50

FELT FOR PRINTING FRAMES

270. 72 inches wide (Gray).....	per pound, \$2.00
---------------------------------	-------------------

THE "TEC" VACUUM SUN FRAME



271

For obtaining the closest contact these frames of our own special manufacture are unsurpassed.

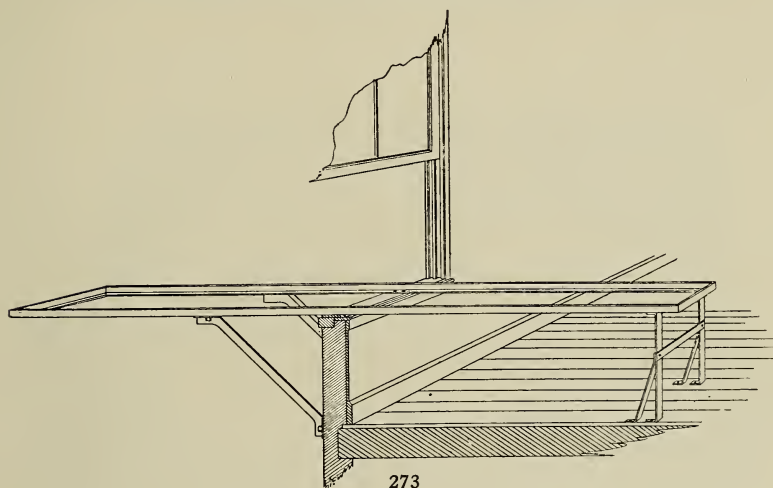
By means of a hand pump, the air is entirely exhausted between the cushion and the glass, forming the best contact obtainable between the tracing and sensitized paper.

By the use of the "Tec" Vacuum Sun Frames, the faintest lines of a drawing can be reproduced, or drawings wrinkled and worn by much handling can be flattened out and good prints taken therefrom. "Tec" Sepia Solar Prints (in which process contact is a first essential) can be made exceptionally sharp and distinct.

	Frame Only Without Glass	Frame Complete Polished Plate Glass
271. 30×42 inches	each, \$45.00	\$60.00
272. 36×60 inches	each, 55.00	77.00

Any sizes made to order

TRACK FOR BLUEPRINT CARS



On this track arrangement, blueprint cars may be run out of window for exposure. These tracks may be modified to suit certain conditions and are furnished by us complete with blueprint frame and car for carrying same.

273. 30×42 inches, with cushion and plate glass.

274. 36×60 inches, with cushion and plate glass.

Prices on application

In ordering, state height of window sill from floor, thickness of wall, width of window sill, and clear aperture of window.

GALVANIZED-IRON BATH TRAYS



Zinc or galvanized-iron trays with drain pipe, strong-wired rim, and hardwood braces.

275. 20×24 inches each, \$ 5.50

276. 24×30 inches each, 6.75

277. 30×42 inches each, 9.00

278. 36×60 inches each, 12.00

Other sizes made to order

Figures submitted on any track arrangement to suit customers' requirements.

“TEC” DUPLEX ELECTRIC BLUEPRINTING MACHINE



“Tec” Duplex Electric Blueprinting Machine represents the nearest to perfection attained in continuous electric blueprinting machines.

The “Tec” Duplex Electric Blueprinting Machine differs from all others in the most important part of its mechanism and thereby gains 100 per cent. efficiency.



“TEC” DUPLEX ELECTRIC BLUEPRINTING MACHINE—Continued

It is the only machine upon which two prints can be made at individual speeds at the same time. On the upper glass it will print regular blueprint paper and at the same time, on the lower glass, a sepia, black-line, or other kind of paper, faster or slower. The machine also prints two prints from one long tracing in one operation.

The principle lies in the two printing glasses which are segments of cylinders of long radii. The long low curve of these glasses keeps the prints close to the lights and at the same time uses a larger printing area.

The machine is built on two very rigid cast-iron frames; the upper one carries one glass and is hinged to the lower. This upper frame contains a receptacle for unprinted paper covered by a substantial roll top of oak. It may be raised, without disturbing the lamps or mechanism. This allows the operator to readily clean and inspect the interior of glasses and lamps.

Tracings and paper are carried across the curved glass by canvas belts running on rollers. The tension of the belts against the curved glass gives the closest possible contact. An idler roller adjusts the tension of the belts. There are two sets of belts, each having its own rollers. Each set may be stopped, reversed, or run at any of the speeds without affecting the other set. Thus we have two separate machines. The driving mechanism with the transmission is built in the most substantial manner and of the best materials.

This machine will take paper from a continuous roll of any width up to 54 inches. It is equipped with two, three, or four mercury-vapor lamps, as the user may require, each guaranteed to have a life of 1,000 hours.

The printing speed of each printing unit with two-lamp equipment is $1\frac{1}{2}$ feet per minute from a negative or up to 4 feet per minute from a tracing using Electric Rapid Blueprint Paper having a speed of 20 seconds in mid-summer sunlight. With three lamps the speed is $1\frac{3}{4}$ feet per minute from a negative, and up to 6 feet from a tracing. With four lamps the capacity is nearly double that of a two-lamp machine. This applies to each printing unit, and the output of one is in nowise affected by the other. Therefore, a four-lamp equipment has nearly eight times the efficiency of any other two-lamp machine on the market. No other machine can be multiplied in power in this manner.

The feeding is done from either front or back. Prints and tracings are delivered automatically into a box conveniently located under the printing units.

A suitable fan ventilates and cools the space between the lamps and glasses.

The machine is wired and equipped with proper resistance coils, switches, and rheostats, and is self-contained, with the exception of the motor, which stands on the floor.

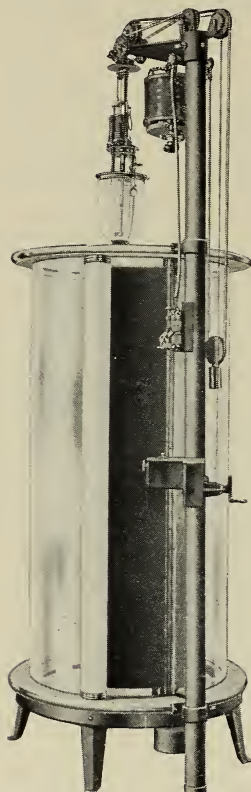
PRICE LIST

290. 2-Lamp Machine, Direct Current.....	\$650.00
291. 3-Lamp Machine, Direct Current.....	750.00
292. 4-Lamp Machine, Direct Current.....	850.00

Net 30 days. F. O. B. New York

Specify if machine for 110 or 220 volts is desired. For machines with alternating current, add \$125 to above prices.

BUCKEYE ELECTRIC BLUEPRINTING MACHINE



Designed to meet the demand for a medium priced durably constructed and efficient apparatus for making blueprints by electric light at any time during the day or night regardless of weather conditions.

Among the several striking features of this machine, are: Two roll bearing rollers, one on each side of the machine, operating independently of each other, enabling the operator to use only one side, or unload one side while the other is being loaded.

The lamp is a special photo engraving and blue-
printing lamp. It is an enclosed long arc type, transmitting a rich violet ray. It is furnished to operate on direct or alternating currents of 110 to 125 and 220 to 250 volts.

The speed of the lamp while traveling through the cylinder is regulated by adjusting the pendulum.

The vertical frame need not be tilted, thus overcoming all chance of breaking the glass and facilitating loading and unloading.

The machine is self-contained, and is not fastened to the wall, ceiling, or floor. It can be moved about easily.

Cost of operation is based upon amount of current used and carbons for the lamp.

This machine is fully covered by guarantee and will be shipped on trial to responsible parties.

The Buckeye Electric Blueprinting Machine is furnished completely equipped for operation, requiring only connection to source of current.

The standard sizes are furnished:

297. Style "B," capacity 2 prints 42×44,	price \$172.50
298. Style "C," capacity 2 prints 42×72,	price 212.50
F. O. B. Factory.	252.50

SHIPPING WEIGHTS

Style "A," including boxing, approximately 1,000 pounds.
Style "B," including boxing, approximately 1,200 pounds.
Style "C," including boxing, approximately 1,400 pounds.

DIMENSIONS

Each machine requires a floor space of but 3½ feet square.

Style "A," height over all, 7 feet 11 inches.

Style "B," height over all, 9 feet 5 inches.

Style "C," height over all, 10 feet 5 inches.

In ordering specify voltage of current whether direct or alternating, and if alternating give frequency of cycles.

If alternating current is used add \$10 to above.



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.

“Tec” Profile Papers and Cloths

It is hard to do justice to these papers with illustration and description only. A complete set of samples is included in our sample book, which will be sent to you postpaid upon request.



Reduced facsimiles of our labels

The “Tec” Profile and Cross-Section Papers are engraved from new rollers and are absolutely accurate. They are very distinct, lines are unbroken, and background clean and clear. Attention is directed to our new Transparent Profile and Cross-Section Cloths, upon which unusual care is used to keep the lines unbroken, clean, and distinct.

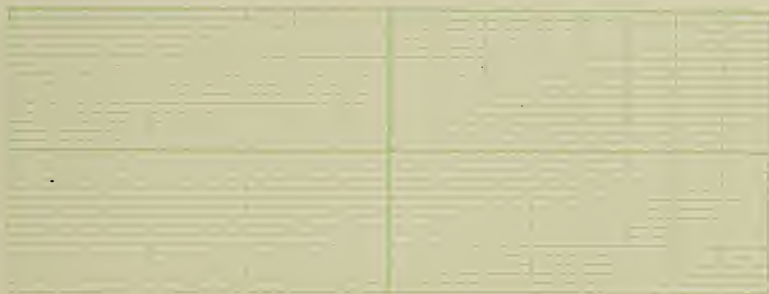


Plate A. 4×20 to one inch

	Per Roll	Per Yard
300. Plate A, 20 inches wide, orange or green on drawing paper, 50-yard rolls	\$10.00	\$.24
302. Plate A, 20 inches wide, mounted on muslin, orange or green, 20-yard rolls	10.00	.60
304. Plate A, 20 inches wide, on opaque cloth, orange or green, 20-yard rolls	10.00	.60
306. Plate A, 20 inches wide, on tracing paper, orange only, 50-yard rolls	10.00	.24
308. Plate A, 20 inches wide, on “Tec” tracing cloth, orange only, 20-yard rolls.....	12.50	.75



TECHNICAL SUPPLY COMPANY SCRANTON, PA.

“TEC” PROFILE PAPERS AND CLOTHS—Continued

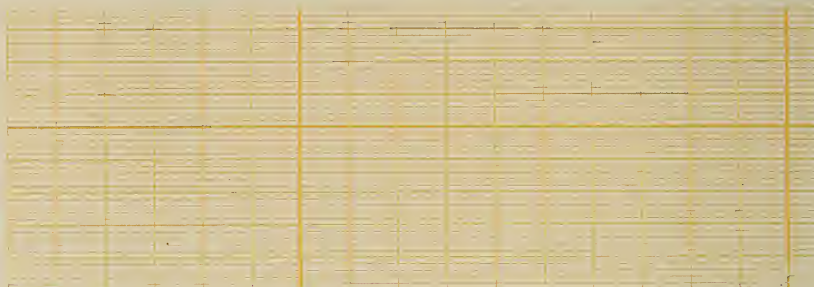
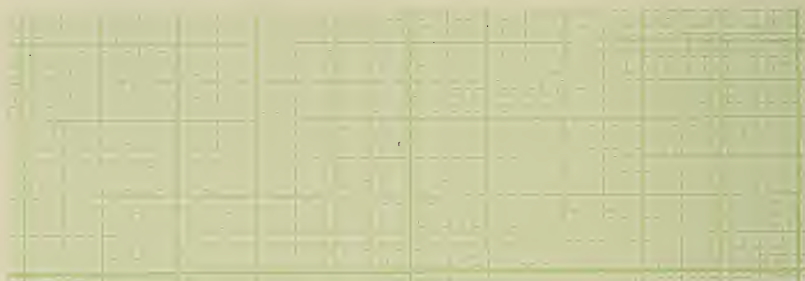


Plate B. 4×30 to 1 inch

	Per Roll	Per Yard
310. Plate B, 20 inches wide, on drawing paper, orange or green, 50-yard rolls	\$10.00	\$.24
312. Plate B, 20 inches wide, mounted on muslin, orange or green, 20-yard rolls.....	10.00	.60
314. Plate B, 20 inches wide, on opaque cloth, orange or green, 20-yard rolls	10.00	.60
316. Plate B, 20 inches wide, on tracing paper, orange only, 50-yard rolls	10.00	.24
318. Plate B, 20 inches wide, on “Tec” tracing cloth, orange only, 20-yard rolls	12.50	.75



Millimeter

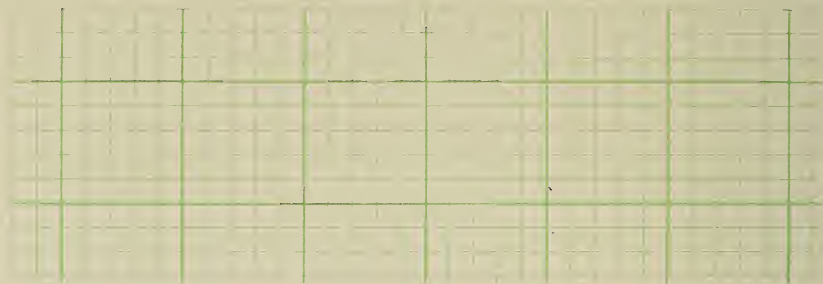
	Per Roll	Per Yard
320. Millimeter, 50 centimeters wide, on drawing paper, orange or green, 50-yard rolls.....	\$10.00	\$.24
322. Millimeter, 50 centimeters wide, mounted on muslin, orange or green, 20-yard rolls.....	10.00	.60
324. Millimeter Engraving, 50 centimeters wide, on opaque cloth, orange or green, 20-yard rolls.....	10.00	.60
326. Millimeter, 50 centimeters wide, on tracing paper, orange only, 50-yard rolls	10.00	.24
328. Millimeter Engraving, 50 centimeters wide, on “Tec” tracing cloth, orange only.....	12.50	.75

“Tec” Cross-Section Papers and Cloths

330-340. 10×10 to 1 inch

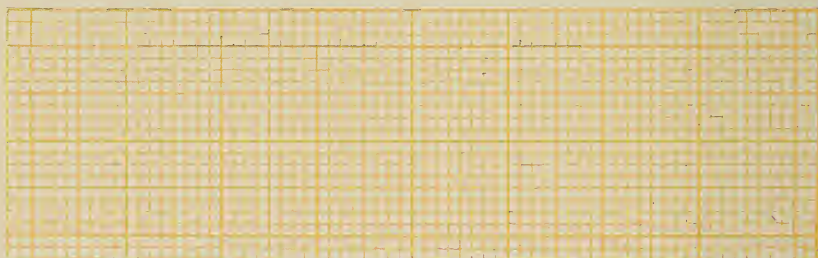
	Per Roll	Per Yard
330. Cross-Section, 20 inches wide, on drawing paper, orange or green, 50-yard rolls	\$10.00	\$.24
332. Cross-Section, 20 inches wide, mounted on muslin, orange or green, 20-yard rolls.....	10.00	.60
334. Cross-Section, 20 inches wide, on opaque cloth, orange or green, 20-yard rolls.....	10.00	.60
336. Cross-Section, 20 inches wide, on tracing paper, orange only, 50-yard rolls	10.00	.24
338. Cross-Section, 20 inches wide, on “Tec” tracing cloth, orange only, 20-yard rolls	12.50	.75
339T. Cross-Section, 20 inches wide, 20×20 to the inch, on transparent paper, orange only, 50-yard rolls.....	10.00	.24
339S. Cross-Section, 20 inches wide, 20×20 to the inch, on “Tec” tracing cloth, orange only, 20-yard rolls.....	12.50	.75
	Per Quire	Per Sheet
340. Cross-Section, in sheets, engraving 16×20 inches, on drawing paper, printed in orange or green.....	\$ 2.50	\$.15
340T. Cross-Section, in sheets, engraving 16×20 inches, on tracing paper, printed in orange only.....	2.50	.15

“Tec” Printed Cross-Section Paper in Sheets



350. 8×8 to 1 inch

	Per Quire	Per Sheet
350. In sheets 16×20 inches, on drawing paper, printed in orange or green	\$2.50	\$.15
350T. On tracing paper, printed in orange only.....	2.50	.15



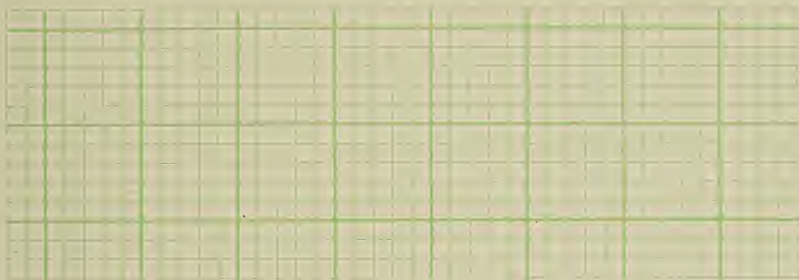
352. 16×16 to 1 inch

	Per Quire	Per Sheet
352. In sheets 16×20 inches, on drawing paper, printed in orange or green	\$2.50	\$.15
352T. On tracing paper, printed in orange only.....	2.50	.15

In ordering, mention color desired. Samples of Cross-Section Papers mailed on application.



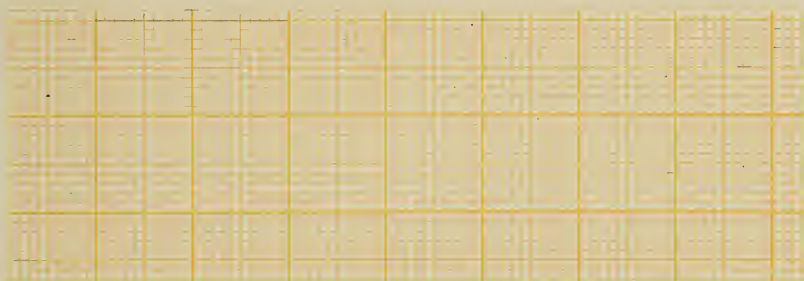
"TEC" PRINTED CROSS-SECTION PAPER IN SHEETS—Continued



354. 5×5 to $\frac{1}{2}$ inch

	Per Quire	Per Sheet
354. In sheets 16×20 inches, on drawing paper, printed in orange or green	\$2.50	\$.15
354T. On tracing paper, printed in orange only.....	2.50	.15

Small Sheets for Technical Students, Mechanical Engineers, Etc.

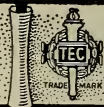


355-356. 10×10 to $\frac{1}{2}$ inch, every fifth line heavy

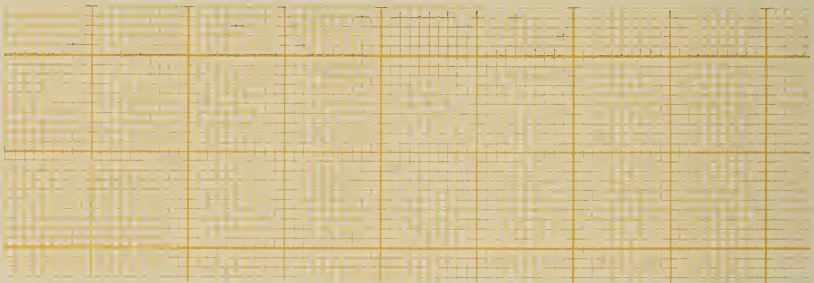
	Per Quire	Per 100 Sheets
355A. In sheets 5×7 inches, on drawing paper, green only.....	\$.50	\$1.75
355B. In sheets 5×7 inches, on tracing paper, orange only.....	.25	.90
356A. In sheets 7×10 inches, on drawing paper, green only....	.60	2.25
356B. In sheets 7×10 inches, on tracing paper, orange only....	.40	1.50



TECHNICAL SUPPLY COMPANY SCRANTON, PA.



"TEC" PRINTED CROSS-SECTION PAPER IN SHEETS—Continued

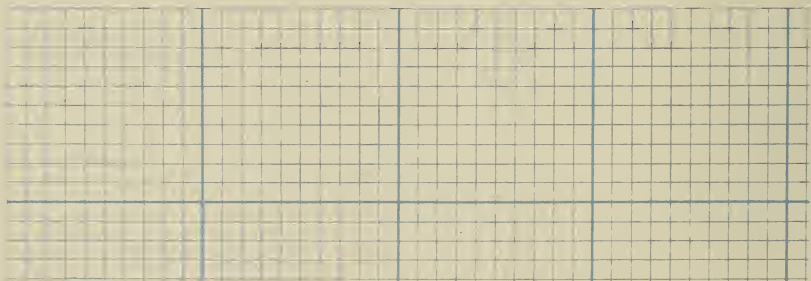


357-358. 20 × 20 to 1 inch, every tenth line heavy

	Per Quire	Per 100 Sheets
357A. In sheets 5 × 7 inches, on drawing paper, green only.....	\$.50	\$1.75
357B. In sheets 5 × 7 inches, on tracing paper, orange only.....	.25	.90
358A. In sheets 7 × 10 inches, on drawing paper, green only....	.60	2.25
358B. In sheets 7 × 10 inches, on tracing paper, orange only....	.40	1.50

The printed Cross-Section Papers are more reliable and accurate than the ruled Cross-Section Papers and of a better stock of paper.

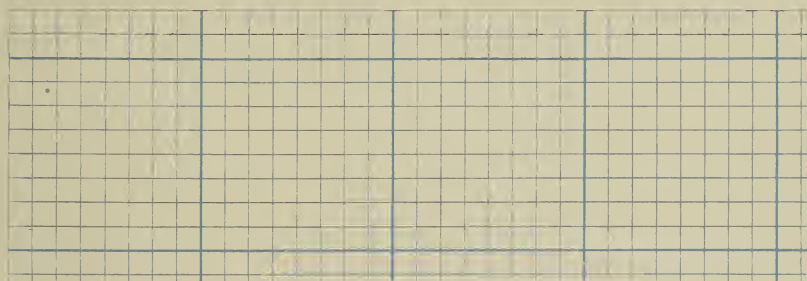
RULED CROSS-SECTION PAPER



370. In sheets 16 × 21 inches, ruled in blue, 10 × 10 to 1 inch, per quire, \$1.00
Samples of Cross-Section Papers mailed on application.

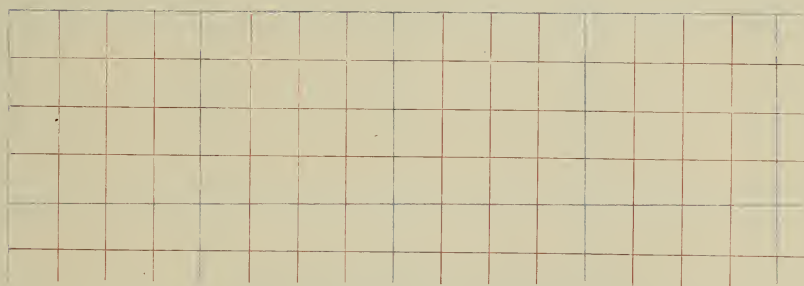


RULED CROSS-SECTION PAPER—Continued



372. In sheets 16×21 inches, ruled in blue, 8×8 to 1 inch.....per quire, \$1.00

374. In sheets 16×21 inches, ruled in blue, 5×5 to 1 inch.....per quire, 1.00



376. Topographical Paper, 16×21 inches, 400 feet to 1 inch,
ruled in blue and red per quire, \$1.00

The Ruled Cross-Section Papers are not as reliable as the Printed Cross-Section Papers.

Samples of Cross-Section Papers mailed on application.

CROSS-SECTION BLOCKS OF PRINTED CROSS-SECTION PAPER

390.	5 × 7 inches, 10×10 to 1 inch, 24 sheets.....each,	\$.70
391.	5 × 7 inches, 8 × 8 to 1 inch, 24 sheets.....each,	.70
392.	7 × 10 inches, 10×10 to 1 inch, 24 sheets.....each,	1.20
393.	7 × 10 inches, 8 × 8 to 1 inch, 24 sheets.....each,	1.20

OF RULED CROSS-SECTION PAPER

394.	8 × 10 inches, 10×10 to 1 inch, ruled in blue, 24 sheets.....each,	\$.50
395.	8 × 10 inches, 8 × 8 to 1 inch, ruled in blue, 24 sheets.....each,	.50

SOLID SKETCH BLOCKS—PLAIN

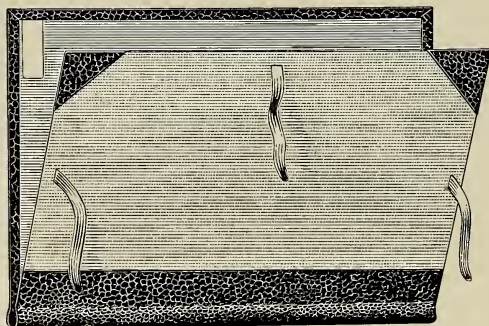
	Sizes, in inches,	5 × 7	7 × 10	9 × 12	10 × 14	14 × 20
396.	Whatman's Paper, 24 sheets.....each,	\$.50	\$.80	\$ 1.25	\$ 1.50	\$ 3.00
397.	"Seneca" Paper, 24 sheets.....each,	.40	.70	.80	1.00	1.50

SOLID SKETCH BLOCKS—BOUND

Leather Back and Corners, Cloth Sides, Pencil Loop

	Sizes, in inches,	5 × 7	7 × 10	9 × 12	10 × 14	14 × 20
398.	Whatman's Paper, 24 sheets.....each,	\$ 1.00	\$ 1.50	\$ 2.00	\$ 2.50	\$ 4.00
399.	"Seneca" Paper, 24 sheets.....each,	.80	1.25	1.50	2.00	3.50

PORTFOLIOS



389

388. Paper Sides, Cloth Back and Corners.

	Sizes, in inches,	12 × 16	14 × 18	17 × 22	20 × 26	23 × 31
Each		\$.60	\$.75	\$ 1.00	\$ 1.50	\$ 2.00

389. Cloth Sides, Leather Back and Corners.

	Sizes, in inches,	12 × 16	14 × 18	17 × 22	20 × 26	23 × 31
Each		\$ 1.75	\$ 2.00	\$ 2.25	\$ 2.75	\$ 3.25

Special Paper

OCCASIONALLY there arises the need for a paper not listed in any available catalog—usually a paper not listed because of the slight existing demand. In such cases, if you will inform us of your needs—tell us how you will use the paper and what characteristics it must possess—we will gladly do all we can to get that paper for you.

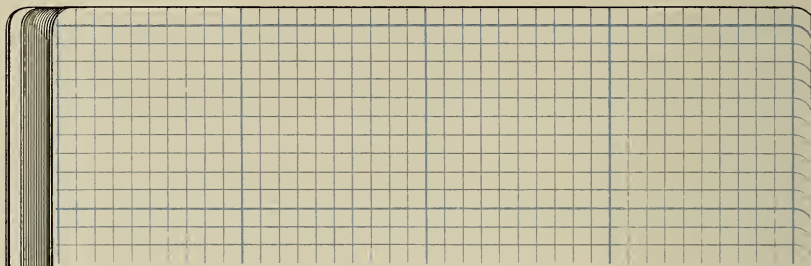
This is a good thought to keep in mind when buying papers of any kind—blue or brown print—tracing or drawing. It often happens that a certain paper will fill your needs better than any other. Your problem is to find that paper.

It is also advisable to send samples when asking for quotations. See that samples are fresh and clean—as old papers are different in color and character than when they were new.

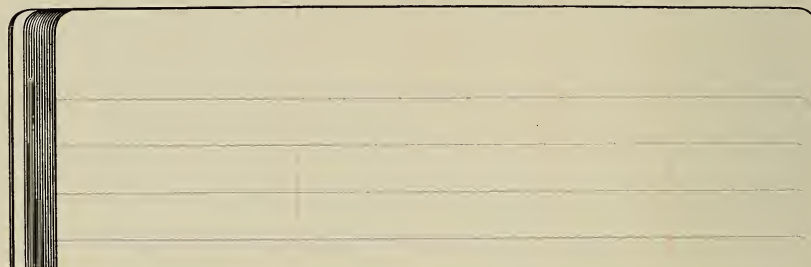




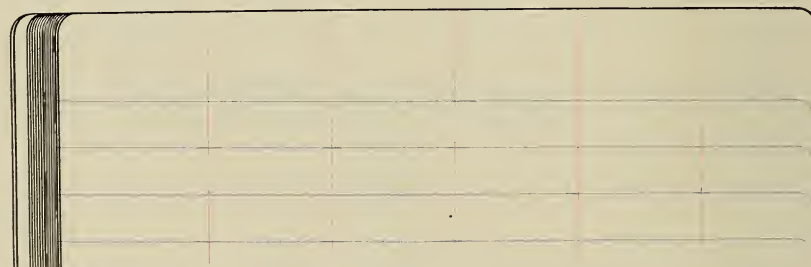
ENGINEERS' FIELD BOOKS



400. Cross-Section Book, $5\frac{1}{2} \times 7\frac{1}{2}$ inches, 80 leaves, 10×10 , bound in leather, round
 401. Cross-Section Book, $6\frac{1}{2} \times 8\frac{1}{2}$ inches, 80 leaves, 10×10 , bound in leather, round

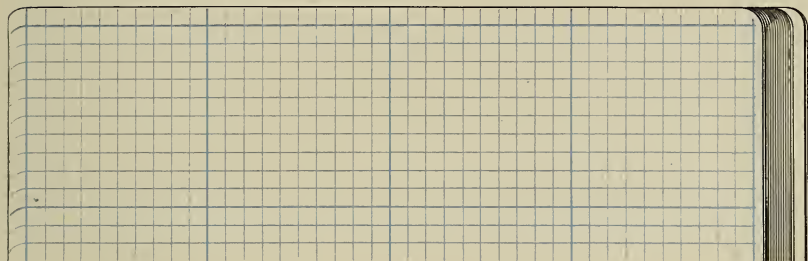


402. Field Book, $4\frac{1}{2} \times 7\frac{1}{2}$ inches, 80 leaves, bound in leather, round corners.....
 403. Field Book, $4\frac{1}{2} \times 7\frac{1}{2}$ inches, 60 leaves, bound in leather, round corners.....



405. Field Book, $4\frac{1}{2} \times 7\frac{1}{2}$ inches, 80 leaves, bound in leather, round corners.....
 406. Field Book, $4\frac{1}{2} \times 7\frac{1}{2}$ inches, 60 leaves, bound in leather, round corners.....

ENGINEERS' FIELD BOOKS



corners

corners

per dozen, \$ 8.50

per dozen, 10.50

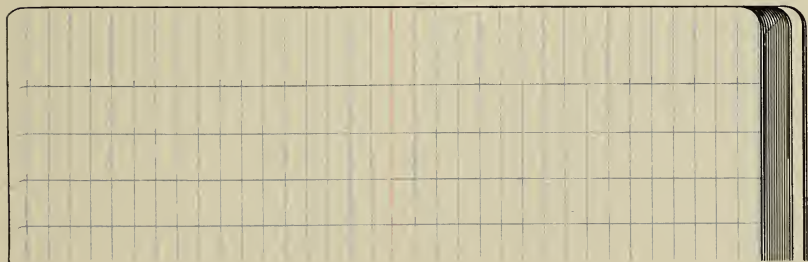


.....

.....

per dozen, \$6.50

per dozen, 5.50



.....

.....

per dozen, \$6.50

per dozen, 5.50



This image shows a blank ledger page. The page is divided into a header section at the top and a table below. The header section has three columns: a wide column on the left, a medium column in the middle, and a narrow column on the right. The table below has three columns and six rows. The first column is wide, the second is medium, and the third is narrow. The page is otherwise blank.

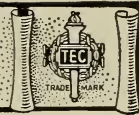
-
- | | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

- [illegible]

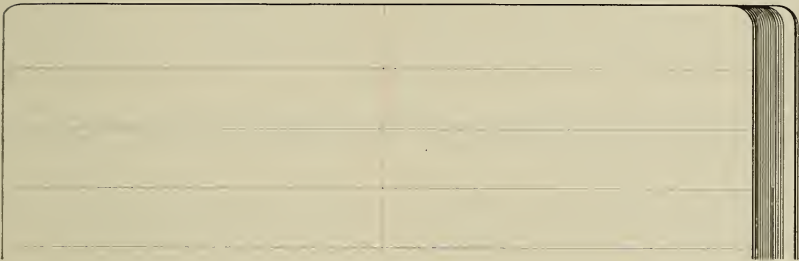
- 44



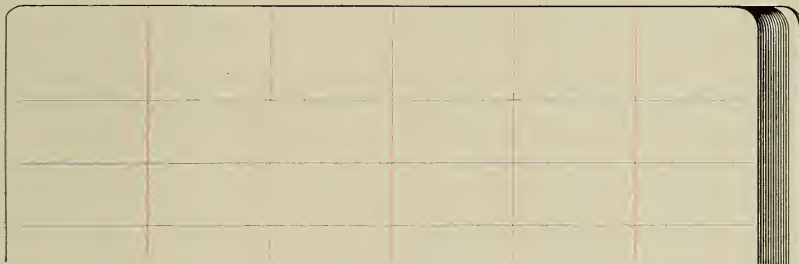
TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



ENGINEERS' FIELD BOOKS



..... per dozen, \$6.50
..... per dozen, 5.50



round corners per dozen, \$6.00
round corners per dozen, 5.00

AREAS		Cubic Yds.		Remarks
EXCAVATION	Embankment	Excav.	Embank.	

headings per dozen, \$9.00



Drafting Instruments

It is a noteworthy fact that our catalog has never been crammed to its capacity with an almost endless variety of Drawing Instruments of every conceivable degree of quality.

Rather than thus confuse the buyer, we have undertaken to simplify matters for him by presenting five definitely graded qualities, and guaranteeing each grade according to its merit.

In limiting our line we have been able to give each grade a great deal of thought and attention which otherwise would have been impossible.

Nor will you find these instruments encumbered with unnecessary patented features which some manufacturers have found necessary to adopt merely to make their product "different."

The "difference" in the T. S. Co. line is distinctly and preeminently in the workmanship and finish of the instruments, and any patented features we have incorporated were considered only in response to an actual demand created by technical men themselves—and not by *ourselves*.

This fact means a great deal to you as a user of drawing instruments.

You will find in the "Tec" Line a comprehensive range of efficiency and price to meet every requirement and desire.

Furthermore, we are always ready to ship any of our instruments on approval to any professional man or buyer, who is at liberty to give them a thorough inspection and comparison with other makes.

AN ACHIEVEMENT IN INSTRUMENT-MAKING SKILL

When quality of workmanship and finish, highest drafting efficiency and consistent cost are factors influencing choice, we recommend, without hesitation, the "Tec" Brand.

This brand of instruments is imported exclusively by the T. S. Co. They are designed for convenience and efficiency sake and because of the absence of obsolete and useless so-called "improvements" they are the most natural tools in the draftsman's hands.

Nothing but a scientifically and naturally built instrument could give this degree of ease and comfort in the hands.

As for material, only the finest selected tempered tool steel and rolled German Silver are used. Each instrument is polished to a point where the most minute imperfection must become immediately apparent.



In the world's largest instrument factory, equipped with finely adjusted machinery, "Tec" Brand Instruments receive their strength, accuracy, grace, and symmetry. Here exacting tests and a searching examination are applied to each instrument before it can carry the "Tec" Brand.

The "Tec" Brand is divided into two distinct patterns, all equal in quality and workmanship, but differing in details of construction. The first of these patterns has been designated "Tec."

"Tec" Brand, having micrometer adjustment of all needle points, straightening device in compasses and bows and the ruling pen with patent release spring.

The second pattern is known as "Rex" Brand and is of semitubular construction.

Your selection of any of these instruments does not demand a comparison of quality. The quality element is uniform and your selection will be influenced by preference of design only.

Our Collegiate, Academic, Preparatory, and High School Brands are all imported, and price considered they offer a wide range of preference of drawing tools that are both dependable and comparatively low in price.

The nickel-plated instruments are designed to meet the needs of beginners in High Schools, Manual Training Schools, and in the lower grades as well.

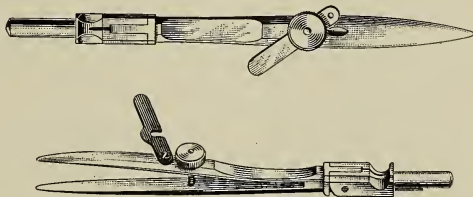
Further information on any or all of these lines will be cheerfully given without involving the inquirer under any obligation.

THE "TEC" BRAND FEATURES OF PREFERENCE THE "TEC" EFFICIENCY PIVOT JOINT

In the "Tec" Pivot joint the steel bolt or screw passes through the head, thus minimizing the tendency to spread and eliminating all chances of breaking the arms of the fork.

RULING PEN WITH PATENT RELEASE SPRING

U. S. Patent, February 4, 1904. No. 762,848



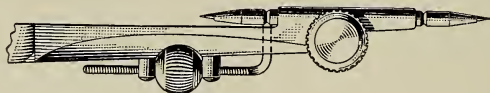
All ruling pens, as well as pen points of this set, are made of one piece of best tempered steel, the upper blade being constructed in the form of a spring, which, on being released, opens wide enough to permit the cleaning of the pen, easily. In order to obtain the former thickness of line after the



cleaning of the pen, throw out the release lever on the upper blade—without altering the setscrew—clean the pen, press both blades together and return the release lever to its original position. Thus the pen is easily kept clean and its durability increased, and the draftsman will lose no time in adjusting the pen to the thickness of line as before its cleaning.

NEEDLE REGULATION BY MICROMETER

U. S. Patent, January 19, 1904. No. 755,396

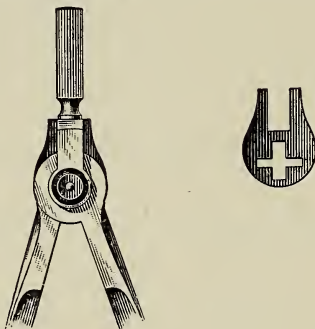


This Regulator enables the draftsman, on loosening the clamping screw on the needle point of the compass, to move the needle point forwards or backwards at will by simply turning the small nut on the side of the compass leg. One end of the sliding screw moves in a slot in the compass leg, clamping into the notch of the needle point and moving it in or out, according to the way the side nut is turned. When the clamping screw is opened, the needle point can easily be reversed and the other end used. After the needle point has been regulated to the desired position, the clamping screw is tightened and the needle point is ready for use.

Besides saving the draftsman much time, the micrometer regulator will enable him to insert the needle point to a more minute position than he could attain by hand, permitting the compass to draw even the smallest circles.

STRAIGHTENING DEVICE ON COMPASS AND DIVIDERS

Patented in the U. S., March 17, 1903



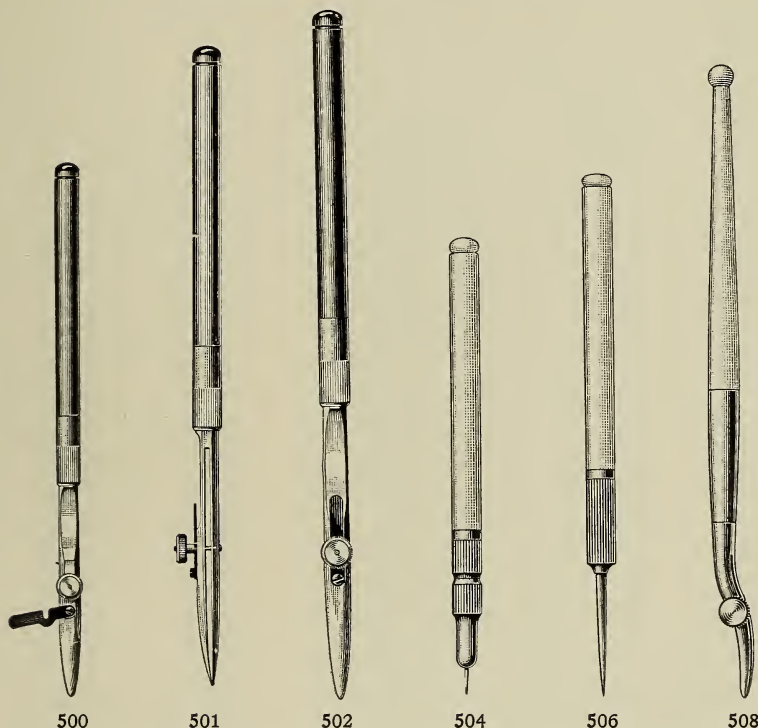
In order to prevent the compass handle from turning to either side, this improvement keeps the handle always in the center line, thus making it ready for instant use on opening, avoiding any change or correction on the compass after the exact space is once taken.

NOTICE.—To prevent the counterfeiting of this superior device, all compasses are stamped on the pivot, "Patented March 17, 1903."



"TEC" BRAND

The Highest Grade Drawing Tools



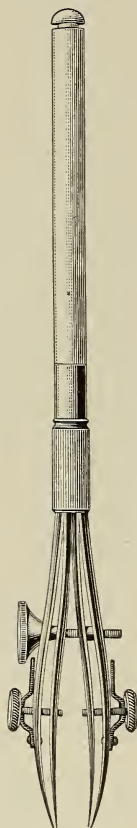
These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing combine to make "Tec" Brand the best instruments for high-grade work.

"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows and Patented Release Spring on Ruling Pens.

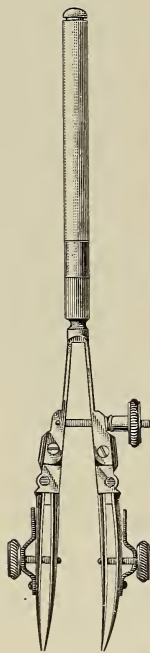
- 500. Ruling Pen, ebony handle, patent release spring, $4\frac{1}{4}$ inches....each, \$1.10
- 501. Ruling Pen, ebony handle, patent release spring, 5 inches....each, 1.20
- 502. Ruling Pen, ebony handle, patent release spring, $5\frac{1}{2}$ inches....each, 1.30
- 503. Ruling Pen, ebony handle, patent release spring, 6 inches....each, 1.40
- 504. Pricker, ebony handle each, 1.00
- 506. Tracer, ebony handle each, .90
- 508. Curve Pen, $4\frac{3}{4}$ inches, ebony handle.....each, 1.50

*Nos. 500-504 furnished with aluminum handles at 10 cents additional.
In ordering add A to the No.*

"TEC" BRAND
The Highest Grade Drawing Tools



510



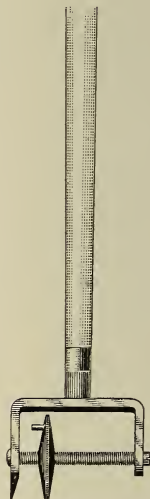
512



515



518

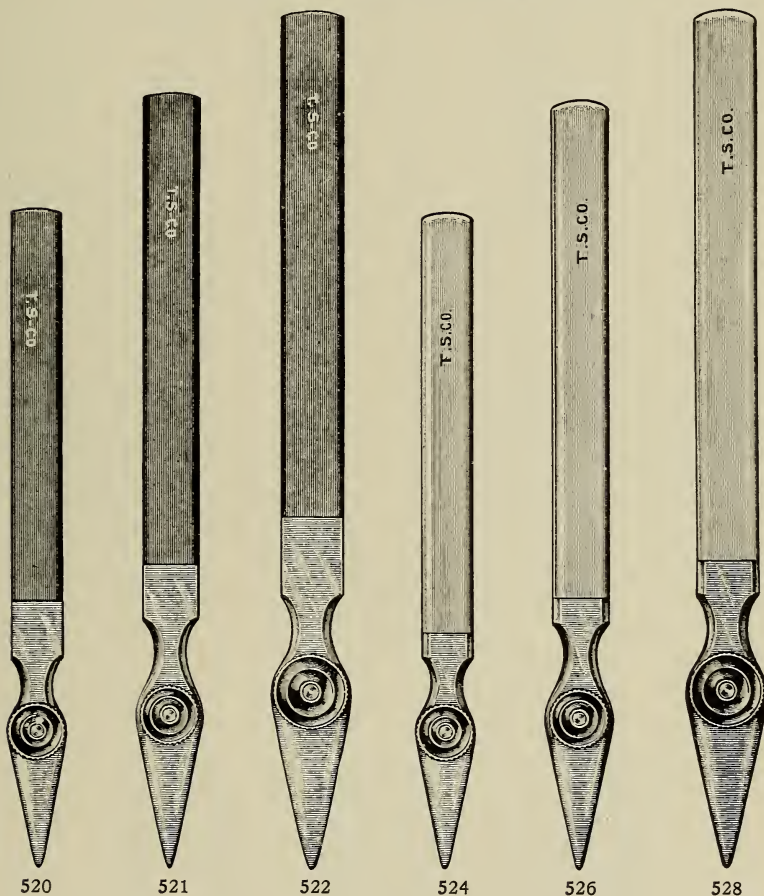


519

510. Improved Railroad or Border Pen, ebony handle, 6½ inches...each, \$ 3.50
 512. Railroad or Border Pen, ebony handle, 5 inches.....each, 3.50
 515. Dotting Pen, 4½ inches, with 6 wheels, so arranged that different settings are obtained by simply turning the thumbscrew....each, 10.00
 518. Dotting Pen, 6 inches, ivory handle, 6 wheels, with ink reservoir, improved each, 5.75
 519. Opisometer, ebony handle, for measuring curved lines.....each, 1.70
Aluminum handles furnished for Nos. 510, 512, 518, and 519 at 10 cents additional.

Pens carefully sharpened and polished for 25 cents each

"TEC" BRAND
 The Highest Grade Drawing Tools



- 520. Ebony handle, upper blade with spring, 5 inches.....each, \$1.40
- 521. Ebony handle, upper blade with spring, 6 inches.....each, 1.60
- 522. Ebony handle, upper blade with spring, 7 inches.....each, 1.70
- 524. Aluminum handle, upper blade with spring, 5 inches.....each, 1.70
- 526. Aluminum handle, upper blade with spring, 6 inches.....each, 1.90
- 528. Aluminum handle, upper blade with spring, 7 inches.....each, 2.20

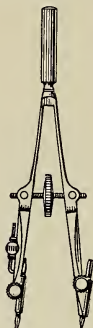
Pens carefully sharpened and polished for 25 cents each

"TEC" BRAND

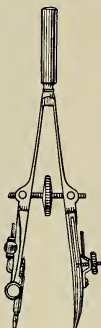
The Highest Grade Drawing Tools



530

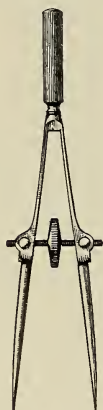


531

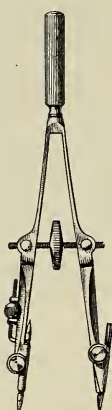


532

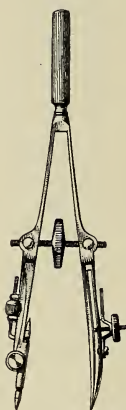
530. Minute Steel Spring Bow-Dividers, 2½ inches, metal handle...each, \$1.90
 531. Minute Steel Spring Bow-Pencil, 2½ inches, metal handle....each, 2.20
 532. Minute Steel Spring Bow-Pen, 2½ inches, metal handle.....each, 2.20
 533. Set of Bows, Nos. 530, 531, and 532, in morocco case, silk-velvet lined per set, 7.20
 Above with side adjusting screws at same price



534



535



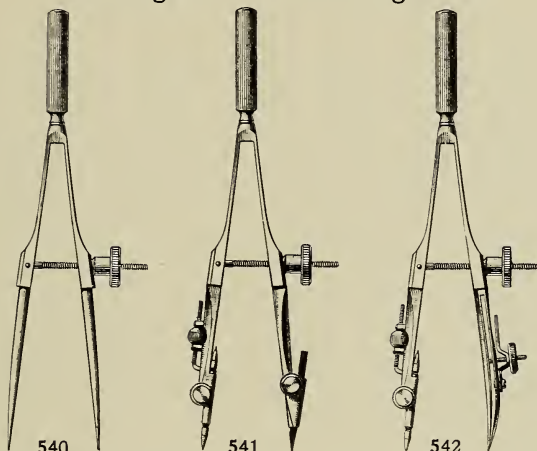
536

534. Steel Spring Bow-Dividers, 3 inches, metal handle.....each, \$1.90
 535. Steel Spring Bow-Pencil, 3 inches, metal handle.....each, 2.20
 536. Steel Spring Bow-Pen, 3 inches, metal handle.....each, 2.20
 537. Set of Bows, Nos. 534, 535, and 536, in morocco case, silk-velvet lined per set, 7.20

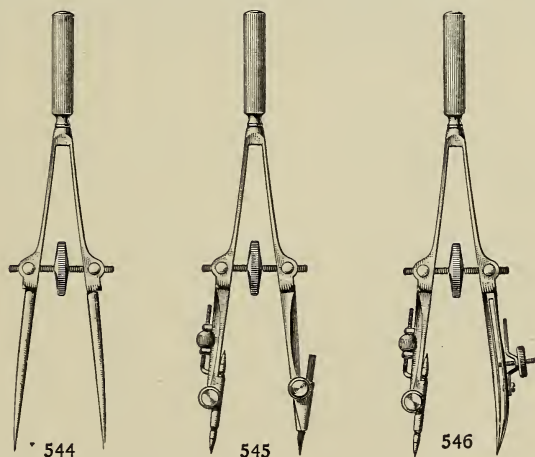


"TEC" BRAND

The Highest Grade Drawing Tools



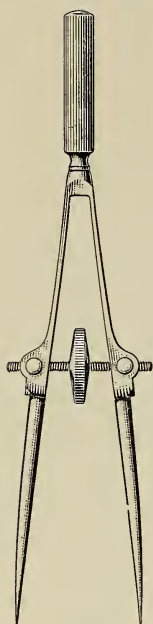
540. Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.....each, \$1.60
 541. Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.....each, 1.80
 542. Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.....each, 1.80
 543. Set of Bows, Nos. 540, 541, and 542, in morocco case.....per set, 7.00



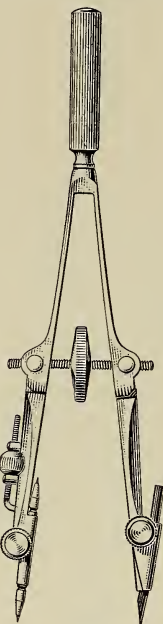
544. Steel Spring Bow-Dividers, $3\frac{1}{2}$ in., metal handle, center adj....each, \$2.00
 545. Steel Spring Bow-Pencil $3\frac{1}{2}$ in., metal handle, center adj.....each, 2.30
 546. Steel Spring Bow-Pen, $3\frac{1}{2}$ in., metal handle, center adj.....each, 2.30
 547. Set of Bows, Nos. 544, 545, and 546, in morocco case.....per set, 7.50

"TEC" BRAND

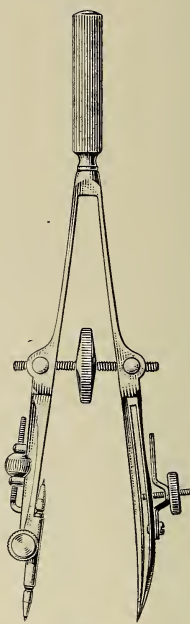
The Highest Grade Drawing Tools



548



549



550

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

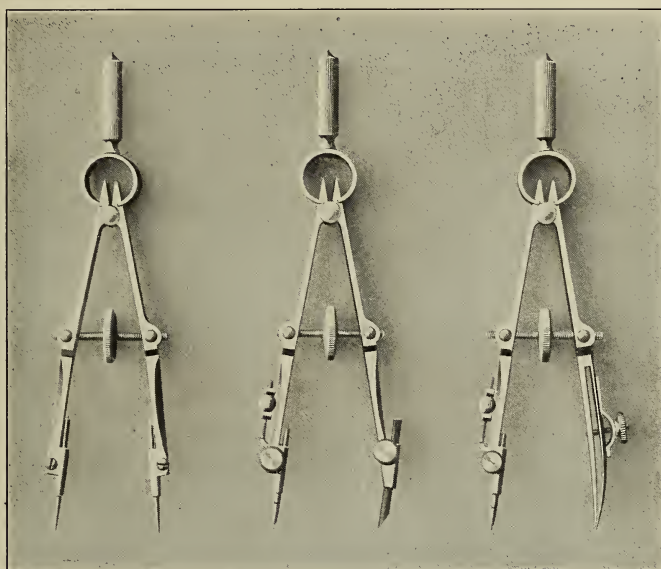
"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

- 548. Steel Spring Bow-Dividers, $4\frac{3}{4}$ inches, metal handle, center adjustment each, \$2.30
- 549. Steel Spring Bow-Pencil, $4\frac{3}{4}$ inches, metal handle, center adjustment each, 3.00
- 550. Steel Spring Bow-Pen, $4\frac{3}{4}$ inches, metal handle, center adjustment each, 3.00
- 551. Set of Bows, 548, 549, and 550, in morocco case, silk-velvet lined per set, 9.50

All needle points regulated by patent micrometer adjustment. All pens equipped with patent release spring.

"TEC" BRAND

The Highest Grade Drawing Tools



552

553

554

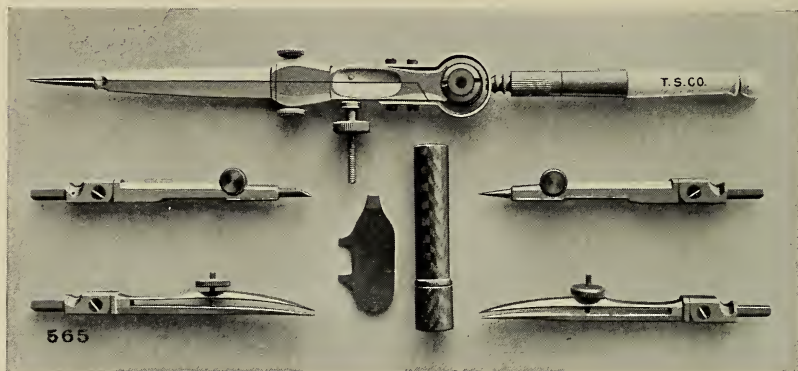
These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

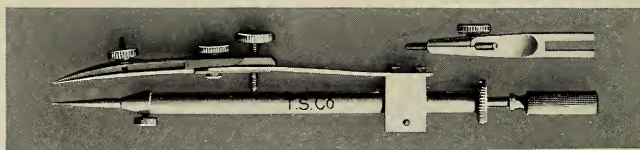
- | | |
|---|---------------|
| 552. Circular Steel Spring Bow-Dividers, 3½ inches, metal handle, center adjustment | each, \$2.00 |
| 553. Circular Steel Spring Bow-Pencil, 3½ inches, metal handle, center adjustment | each, 2.30 |
| 554. Circular Steel Spring Bow-Pen, 3½ inches, metal handle, center adjustment | each, 2.30 |
| 555. Set of Bows, Nos. 552, 553, and 554, in morocco case..... | per set, 7.50 |
| 556. Circular Steel Spring Bow-Dividers, 3½ inches, metal handle, with side screws | each, 1.60 |
| 557. Circular Steel Spring Bow-Pencil, 3½ inches, metal handle, with side screws | each, 2.00 |
| 558. Circular Steel Spring Bow-Pen, 3½ inches, metal handle, with side screws | each, 2.00 |
| 559. Set of Bows, Nos. 556, 557, and 558, in morocco case..... | per set, 6.50 |

"TEC" BRAND

The Highest Grade Drawing Tools



565



561

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

- 560. Spring Bow-Pen, self-adjusting, 4 inches.....each, \$3.60
- 561. Spring Bow-Pen with Pencil, self-adjusting.....each, 4.50
- 562. No. 561 Spring Bow-Pen, with Pencil, in morocco case, silk-velvet lined each, 5.25

560 and 561 are best for drawing small circles.

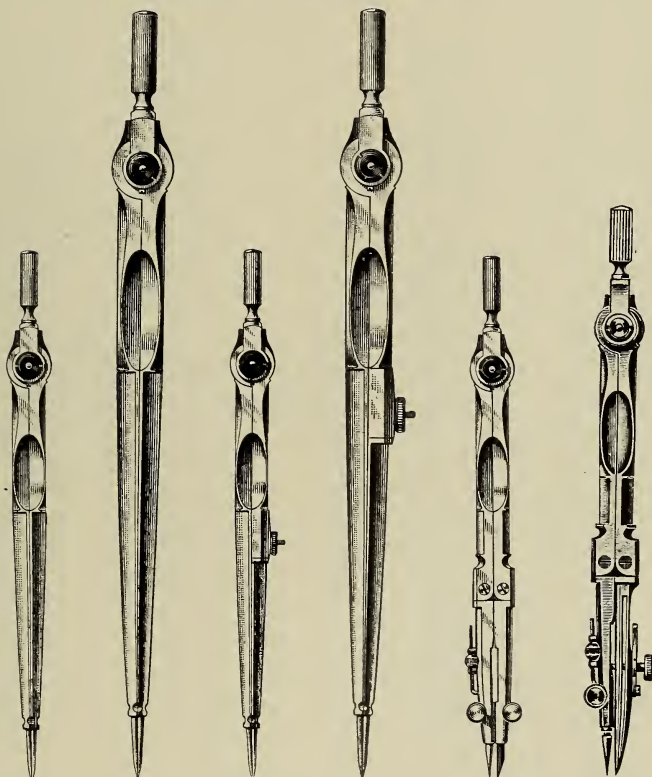
Scratching of pen and slipping of needle point is prevented by small center rod, which remains stationary while the attachment with pen or pencil point is turned, thus drawing circles by its own weight.

- 565. Spring Bow-Compasses, with ivory handle, two steel points, two pen points, pencil, and needle point.....each, 7.50

All needle points regulated by micrometer adjustment. All pens equipped with patent release spring

“TEC” BRAND

The Highest Grade Drawing Tools



570

571

572

573

577

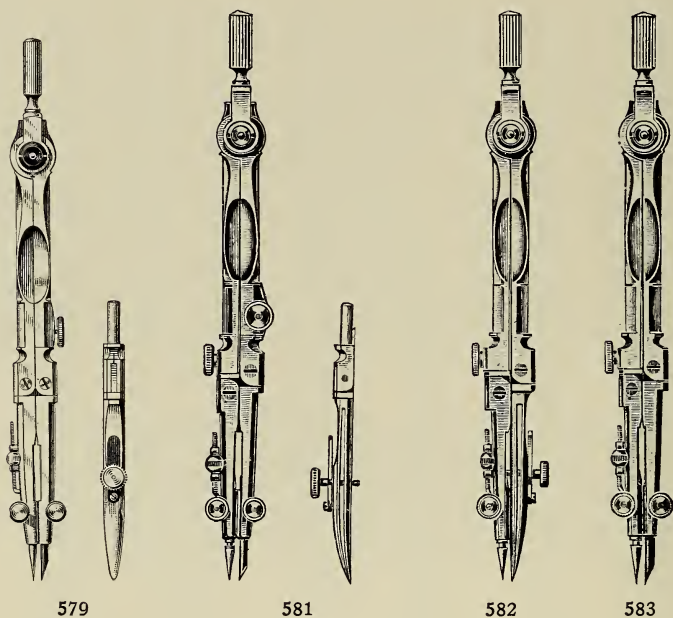
578

- | | |
|---|--------------|
| 570. Plain Dividers, $4\frac{1}{4}$ inches | each, \$2.00 |
| 571. Plain Dividers, 6 inches..... | each, 2.25 |
| 572. Hair-Spring Dividers, $4\frac{1}{4}$ inches | each, 3.30 |
| 573. Hair-Spring Dividers, 6 inches | each, 3.60 |
| 577. Compasses, $4\frac{1}{4}$ inches, fixed needle and pencil point, pivot joint,
micrometer adjustment | each, 4.40 |
| 578. Compasses, $4\frac{1}{4}$ inches, fixed needle and pen point, pivot joint,
micrometer adjustment | each, 4.40 |

All dividers equipped with patent head-straightening device

“TEC” BRAND

The Highest Grade Drawing Tools



These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make “Tec” Brand the best instruments for high-grade work.

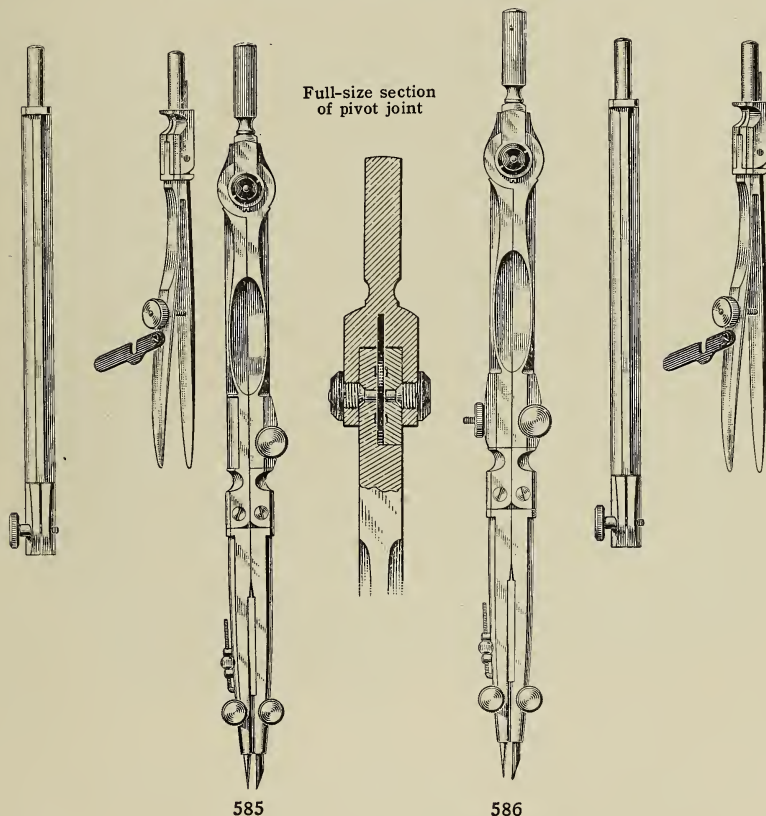
“Tec” instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

- | | |
|---|--------------|
| 579. Compasses, $4\frac{1}{4}$ inches, fixed needle, pen and pencil point, pivot joint | each, \$5.00 |
| 580. Compasses, $4\frac{1}{4}$ inches, with two steel points, pen, pencil, and needle point, pivot joint | each, 7.20 |
| 581. Compasses, $4\frac{1}{2}$ inches, with fixed needle point, pencil and pen point, and hair-spring adjustment..... | each, 6.50 |
| 582. Compasses, $4\frac{1}{4}$ inches, with fixed pen and fixed needle point, and hair-spring adjustment | each, 5.75 |
| 583. Compasses, $4\frac{1}{4}$ inches, with fixed pencil and needle point, and hair-spring adjustment | each, 5.75 |



"TEC" BRAND

The Highest Grade Drawing Tools



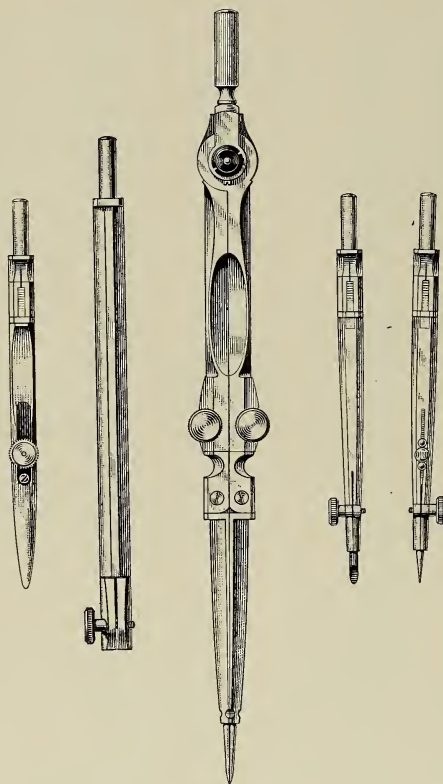
These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

585. Compasses, 6 inches, with fixed needle point, pencil, pen point, and lengthening bar, pivot joint.....each, \$6.50
586. Compasses, 6 inches, with fixed needle point, pencil, pen point, and lengthening bar, pivot joint and hair spring.....each, 7.90



"TEC" BRAND
The Highest Grade Drawing Tools



600

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

600. Compasses, 6 inches, with two steel points, pen, pencil point, lengthening bar, and needle point, pivot joint.....each, \$7.90

“TEC” BRAND
The Highest Grade Drawing Tools



621C

These ipstruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make “Tec” Brand the best instruments for high-grade work.

“Tec” instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

- 621. Minute Beam Compasses, with two steel points, pen, pencil, and needle point each, \$ 9.00
- 621C. Minute Beam Compasses No. 621 in morocco pocket case, silk-velvet lined each, 10.00



"TEC" BRAND

The Highest Grade Drawing Tools



622C

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

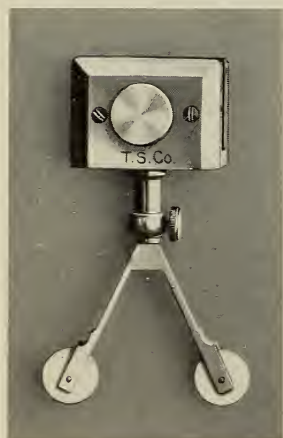
"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

622. Beam Compasses, to fit on any straightedge, with two needle points, exchangeable for lead, and pen point, and micrometer adjustment each, \$ 9.50

622C. Beam Compasses No. 622 in morocco pocket case, silk-velvet lined each, 10.70

623. Wheel Attachment for No. 622, each, 3.25

624. Nos. 622 and 623, in morocco pocket case, silk-velvet lined...each, 13.20

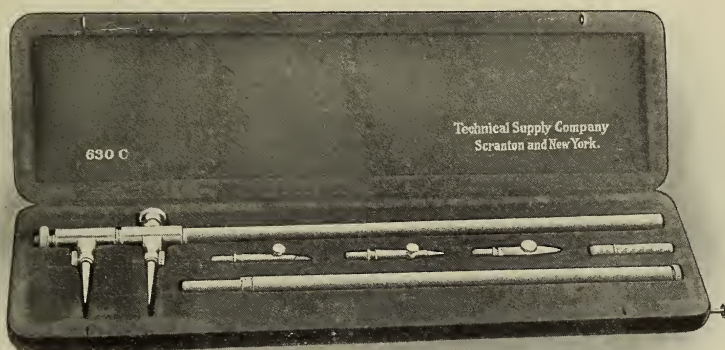


623



"TEC" BRAND

The Highest Grade Drawing Tools



630C

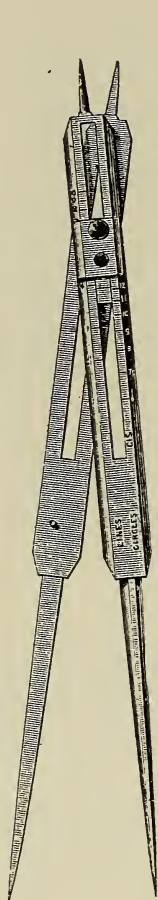
These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

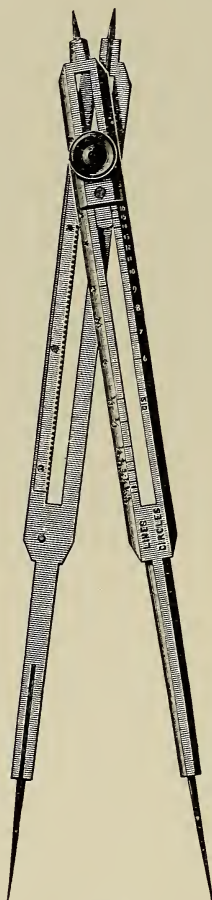
- 630. Tubular Beam Compasses, 18 inches, two round German silver bars, with two steel points, pen, pencil and needle point, with micrometer adjustment each, \$12.50
- 631. Tubular Beam Compasses, 24 inches, three bars.....each, 13.50
- 632. Tubular Beam Compasses, 36 inches, three bars.....each, 16.50
- 630C. Tubular Beam Compasses, No. 630 in morocco case.....each, 13.50
- 631C. Tubular Beam Compasses, No. 631 in morocco case.....each, 15.00
- 632C. Tubular Beam Compasses, No. 632 in morocco case.....each, 19.50
- 634. Wheel Attachment for Nos. 630 or 631.....each, 2.50
- 635. Wheel Attachment for No. 632.....each, 2.75
- 636. No. 630 and No. 634 in morocco case.....each, 16.50
- 637. No. 631 and No. 634 in morocco case.....each, 17.00
- 638. No. 632 and No. 635 in morocco case.....each, 21.75

“TEC” BRAND

The Highest Grade Drawing Tools



640



642



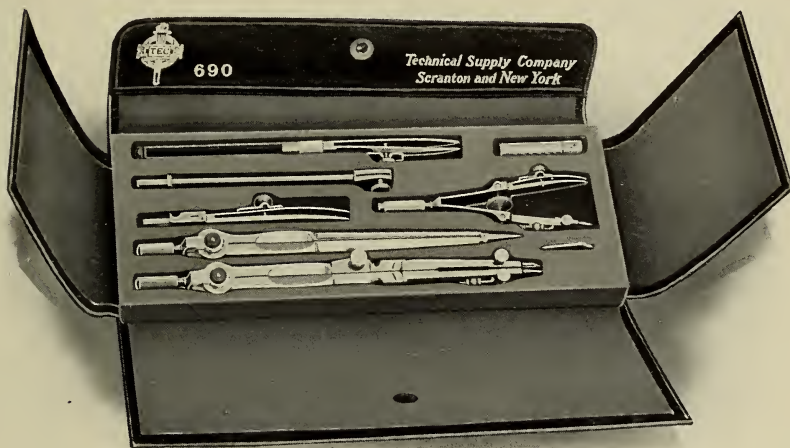
644

- | | |
|---|-----------------------------------|
| 640. Proportional Dividers, 7½ inches, finely graduated..... | each, \$ 9.50 |
| 641. Proportional Dividers, like No. 640, but 8½ inches..... | each, 11.00 |
| 642. Proportional Dividers, 8½ inches, with rack movement, finely graduated for lines and circles..... | each, 12.00 |
| 644. Proportional Dividers, 9½ inches, micrometer adjustment, graduated for lines, circles, planes, and solids..... | each, 17.50 |
| Morocco cases, lined with silk velvet, for Nos. 640, 641, 642, 644 | |
| | each, \$1.25 \$1.50 \$1.50 \$1.70 |



“TEC” BRAND

The Highest Grade Drawing Tools



690

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make “Tec” Brand the best instruments for high-grade work.

“Tec” instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

690. Containing

No. 501 Ruling Pen, ebony handle, 5 inches.

No. 546 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.

No. 571 Plain Dividers, 6 inches.

No. 585 Compass, 6 inches, with fixed needle point, pencil and pen point and lengthening bar.

Box of Leads.

Per set\$17.50

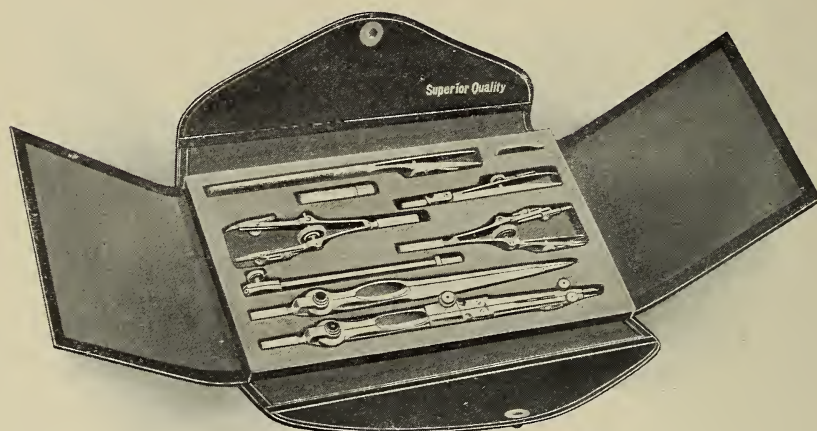
695. Containing same as No. 690, but with Hair-Spring Dividers 573

instead of 571 Plain Dividers. Per set.....\$18.60

Above with Bow Instruments with side screws at the same price.

“TEC” BRAND

The Highest Grade Drawing Tools



700

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make “Tec” Brand the best instruments for high-grade work.

“Tec” instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

700. Containing

No. 501 Ruling Pen, ebony handle, 5 inches.

No. 545 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.

No. 546 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.

No. 571 Plain Dividers, 6 inches.

No. 585 Compass, 6 inches, with fixed needle point, pencil and pen point and lengthening bar.

Box of Leads.

Per set\$18.75

705. Containing same as No. 700, but with Hair-Spring Dividers 573

instead of 571 Plain Dividers. Per set.....\$20.00

Above with Bow Instruments with side screw instead of center screw at same price.



"TEC" BRAND
The Highest Grade Drawing Tools



710

"AN EXCELLENT COLLEGE SET"

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make "Tec" Brand the best instruments for high-grade work.

"Tec" instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

710. Containing

No. 500 Ruling Pen, ebony handle, $4\frac{1}{4}$ inches.

No. 544 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, center adjustment, metal handle.

No. 545 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, center adjustment, metal handle.

No. 546 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, center adjustment, metal handle.

No. 571 Plain Dividers, 6 inches.

No. 585 Compass, 6 inches, with fixed needle point, pen and pencil point, and lengthening bar.

Box of Leads.

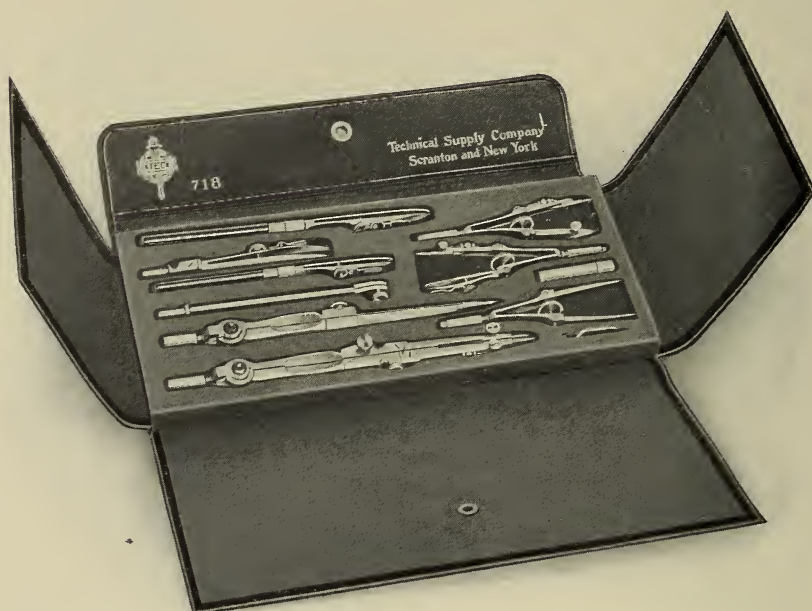
Per set\$23.50

715. Containing same as 710, but with Hair-Spring Dividers 573 instead of 571. Per set\$25.00

Above set with Bow Instruments with side screw instead of center screw at same price.



"TEC" BRAND
The Highest Grade Drawing Tools



718

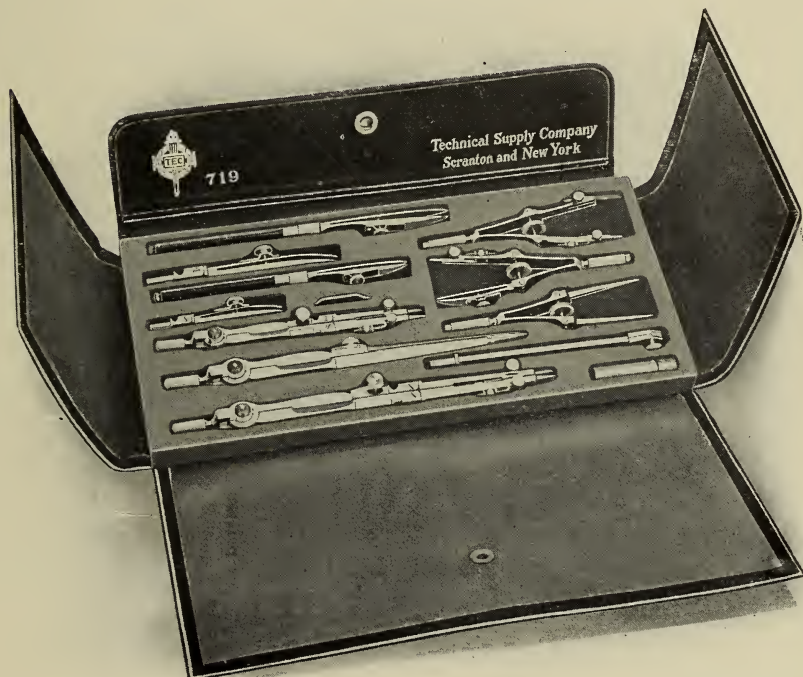
"RECOMMENDED FOR COLLEGE WORK"

718. Containing
 No. 500 Ruling Pen, ebony handle, $4\frac{1}{2}$ inches.
 No. 502 Ruling Pen, ebony handle, $5\frac{1}{2}$ inches.
 No. 544 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, center adjustment, metal handle.
 No. 545 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, center adjustment, metal handle.
 No. 546 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, center adjustment, metal handle.
 No. 573 Hair-Spring Dividers, 6 inches.
 No. 586 Hair-Spring Compass, 6 inches, interchangeable pen and pencil point, lengthening bar.
 Box of Leads.
 Per set\$26.50
Bow Instruments with side bows instead of center wheel bows at same price.
Circular Spring Bows at same price.



TECHNICAL SUPPLY COMPANY SCRANTON, PA.

"TEC" BRAND The Highest Grade Drawing Tools



719

719. Containing

- No. 500 Ruling Pen, ebony handle, $4\frac{1}{4}$ inches.
- No. 502 Ruling Pen, ebony handle, $5\frac{1}{2}$ inches.
- No. 544 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, center adjustment, metal handle.
- No. 545 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, center adjustment, metal handle.
- No. 546 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, center adjustment, metal handle.
- No. 573 Hair-Spring Dividers, 6 inches.
- No. 578 Compass, $4\frac{1}{4}$ inches, fixed needle and pen point.
- No. 585 Hair-Spring Compass, 6 inches, interchangeable pen and pencil point, lengthening bar.

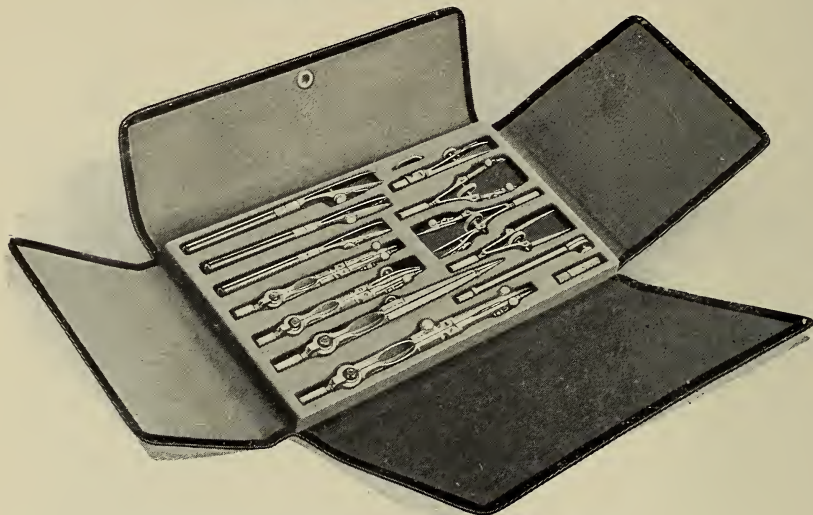
Box of Leads.

Per set\$28.50

Circular Spring Bows at same price.

“TEC” BRAND

The Highest Grade Drawing Tools



720

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make “Tec” Brand the best instruments for high-grade work.

“Tec” instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

720. Containing

No. 500 Ruling Pen, ebony handle, $4\frac{1}{4}$ inches.

No. 501 Ruling Pen, ebony handle, 5 inches.

No. 502 Ruling Pen, ebony handle, $5\frac{1}{2}$ inches.

No. 544 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, center adjustment, metal handle.

No. 545 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, center adjustment, metal handle.

No. 546 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, center adjustment, metal handle.

No. 573 Hair-Spring Dividers, 6 inches.

No. 577 Compasses, $4\frac{1}{4}$ inches, fixed needle and pencil point.

No. 578 Compasses, $4\frac{1}{4}$ inches, fixed needle and pen point.

No. 585 Compasses, 6 inches, interchangeable pen and pencil point and lengthening bar.

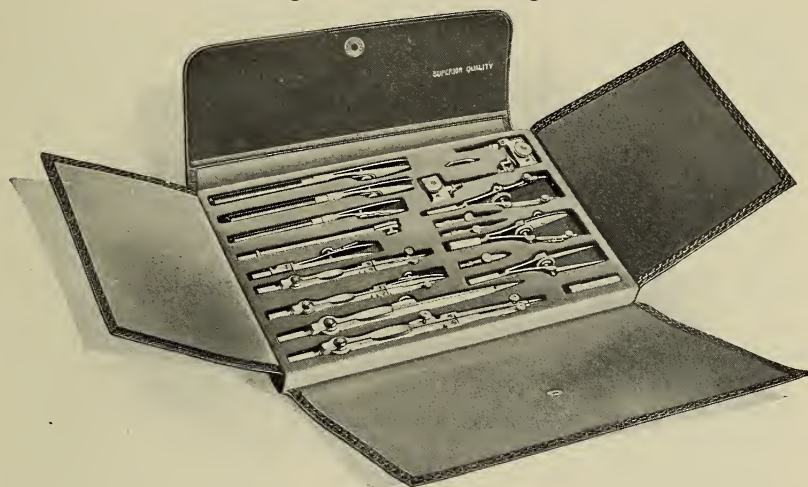
Box of Leads.

Per set\$33.00

Bow Instruments with side screws instead of center screws at the same price.

“TEC” BRAND

The Highest Grade Drawing Tools



730

These instruments are made from hard rolled German Silver and English tempered tool steel. The material, together with the extreme care used in manufacturing, combine to make “Tec” Brand the best instruments for high-grade work.

“Tec” instruments carry Micrometer Adjustment for all needle points, Patented Straightening Device on Compasses and Bows, and Patented Release Spring on Ruling Pens.

730. Containing

- No. 500 Ruling Pen, ebony handle, $4\frac{1}{4}$ inches.
- No. 501 Ruling Pen, ebony handle, 5 inches.
- No. 502 Ruling Pen, ebony handle, $5\frac{1}{2}$ inches.
- No. 544 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, center adjustment, metal handle.
- No. 545 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, center adjustment, metal handle.
- No. 546 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, center adjustment, metal handle.
- No. 573 Hair-Spring Dividers, 6 inches.
- No. 577 Compasses, $4\frac{1}{4}$ inches, fixed needle and pencil point.
- No. 578 Compasses, $4\frac{1}{4}$ inches, fixed needle and pen point.
- No. 585 Compasses, 6 inches, interchangeable pen and pencil point and lengthening bar.
- No. 621 Minute Beam Compasses, with two steel points, pen, pencil, and needle point.

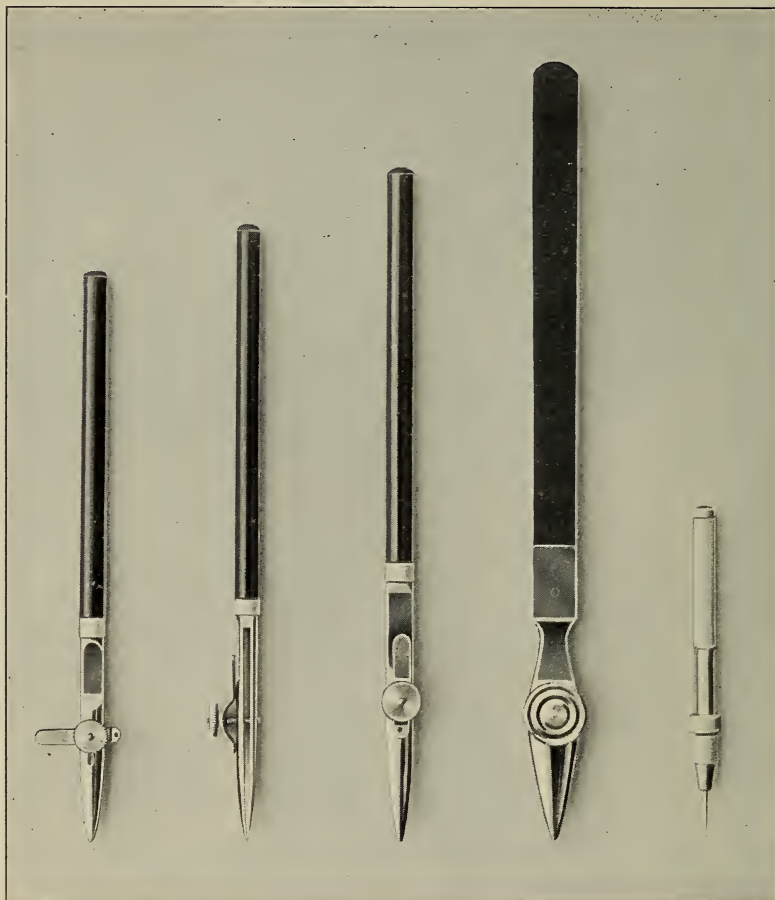
Box of Leads.

Per set\$42.00

Circular Spring Bows at the same price.

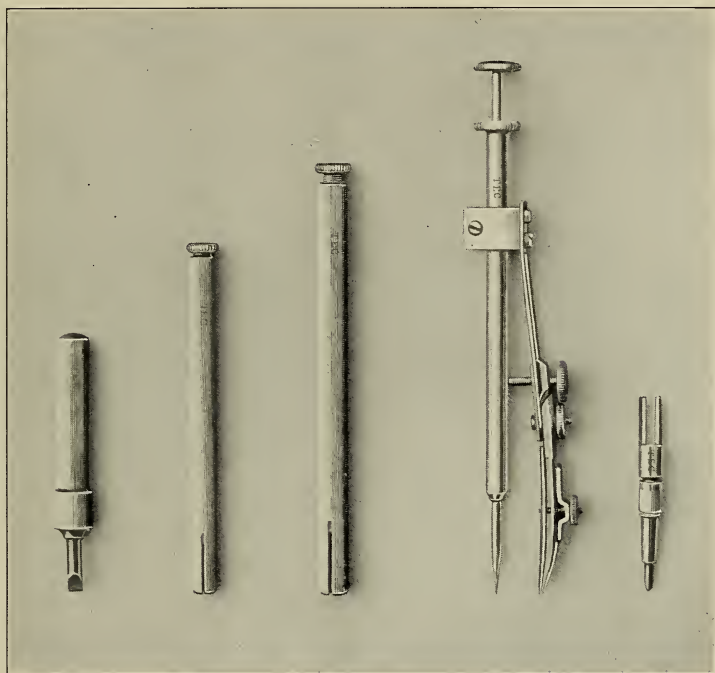
“REX” BRAND

Semitubular Pattern



- | | 740 | 741 | 742 | 743 | 744 | |
|---|-----|-----|-----|-----|-----|--------------|
| 740. Ruling Pen, japanned aluminum handle, patent release spring, | | | | | | |
| 4½ inches | | | | | | each, \$1.20 |
| 741. Ruling Pen, japanned aluminum handle, patent release spring, | | | | | | |
| 5 inches | | | | | | each, 1.30 |
| 742. Ruling Pen, japanned aluminum handle, patent release spring, | | | | | | |
| 5½ inches | | | | | | each, 1.40 |
| 743. Swedish Ruling Pen, ebony handle, 6 inches..... | | | | | | each, 1.70 |
| 744. Pricker, metal handle..... | | | | | | each, .75 |

"REX" BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



745

746

747

748

The "Rex" Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterize the "Tec" brand instruments. The only difference is in the pattern.

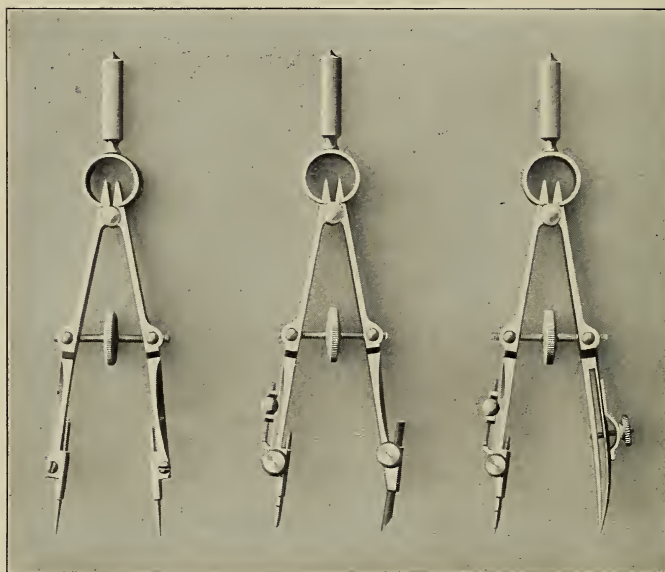
- | | |
|--|--------------|
| 745. Combination Key and Lead Holder | each, \$.25 |
| 746. Combination Metal Handle, 2½ inches, for pen and pencil parts of
compasses | each, .50 |
| 747. Combination Metal Handle, 3 inches, for pen and pencil parts of
compasses | each, .55 |
| 748. Self-Adjusting Spring Bow with pencil point, 4½ inches..... | each, 5.75 |

Most convenient and efficient tool for drawing small circles, screw heads, nuts, etc. A rod passes through the center of instrument and serves for both handle and needle point. This rod remains in a fixed position while the pen or pencil is revolved. To avoid pen slipping or scratching, pen point can be made to revolve by its own weight.

"REX" BRAND

Semitubular Pattern

The Highest Grade Drawing Tools



750

751

752

The "Rex" Brand Semitabular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the "Tec" Brand instruments. The only difference is in the pattern.

750. Steel Circular Spring Bow, center adjustment, 3½ inches.....each, \$2.50

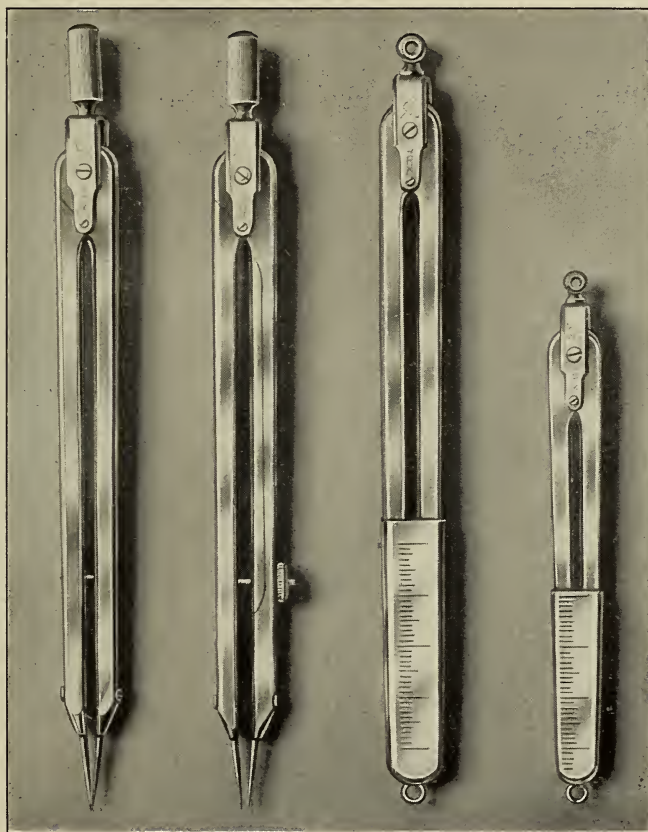
751. Steel Circular Spring Bow-Pencil, center adjustment, 3½ inches.

Each 2.80

752. Steel Circular Spring Bow-Pen, center adjustment, 3½ inches..each, 2.90

753. Nos. 750, 751, and 752, in case.....per set, 9.25

“REX” BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



759

760

761

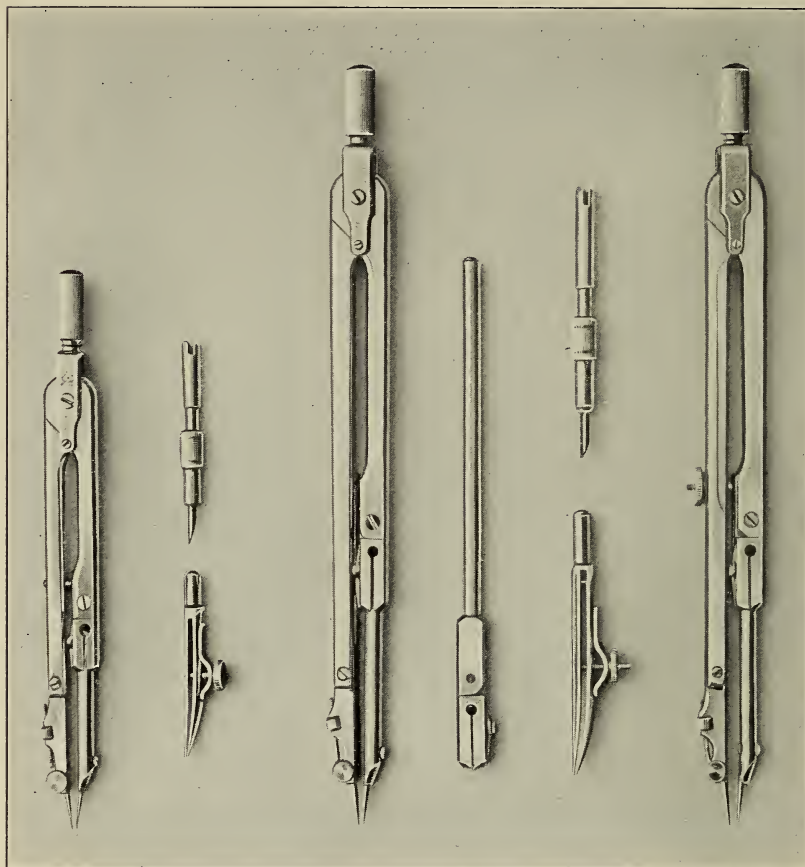
762

The “Rex” Brand Semitabular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the “Tec” Brand instruments. The only difference is in the pattern.

759. Plain Divider, 6 inches	each, \$2.60
759H. Hair-Spring Dividers, 6 inches.....	each, 3.30
760. Plain Dividers, 4½ inches	each, 2.20
760H. Hair-Spring Dividers, 4½ inches.....	each, 2.90
761. Pocket Dividers, 6 inches	each, 2.60
762. Pocket Dividers, 4½ inches	each, 2.30

“REX” BRAND

Semitubular Pattern



- | | 765 | 766 | 766H |
|--|-----|-----|--------------|
| <p>The “Rex” Brand Semitubular instruments shown above, represent the same skilled workmanship and the same high-grade material that characterizes the “Tec” Brand instruments. The only difference is in the pattern.</p> | | | |
| 763. Compasses with straightening device, 4½ in., fixed pen point... | | | each, \$5.75 |
| 764. Compasses with straightening device, 4½ in., fixed pencil point. | | | each, 5.75 |
| 765. Compasses with straightening device, 4½ in., with pencil and pen point | | | each, 6.50 |
| 766. Compasses, 6 in., with pencil, pen, lengthening bar, 745 lead holder and 747 metal handle | | | each, 7.50 |
| 766H. Compasses, same as 766, with hair spring..... | | | each, 8.25 |



"REX" BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



770

The "Rex" Brand Semitubular instruments shown above, represent the same skilled workmanship and the same high-grade material that characterizes the "Tec" Brand instruments. The only difference is in the pattern.

770. Containing

- No. 742 Ruling Pen, 5½ inches.
- No. 752 Bow-Ben, center adjustment, 3½ inches.
- No. 759H Hair-Spring Dividers, 6 inches.
- No. 766 Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar.
- No. 747 Metal Handle, 3 inches, with 4 needles.
- No. 744 Pricker.
- No. 745 Combination Key and Lead Box.

Per set\$20.00

“REX” BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



771

The “Rex” Brand Semitabular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the “Tec” Brand instruments. The only difference is in the pattern.

771. Containing

No. 742 Ruling Pen, 5½ inches.

No. 751 Bow-Pencil, center adjustment, 3½ inches.

No. 752 Bow-Pen, center adjustment, 3½ inches.

No. 759H Hair-Spring Dividers, 6 inches.

No. 766 Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar.

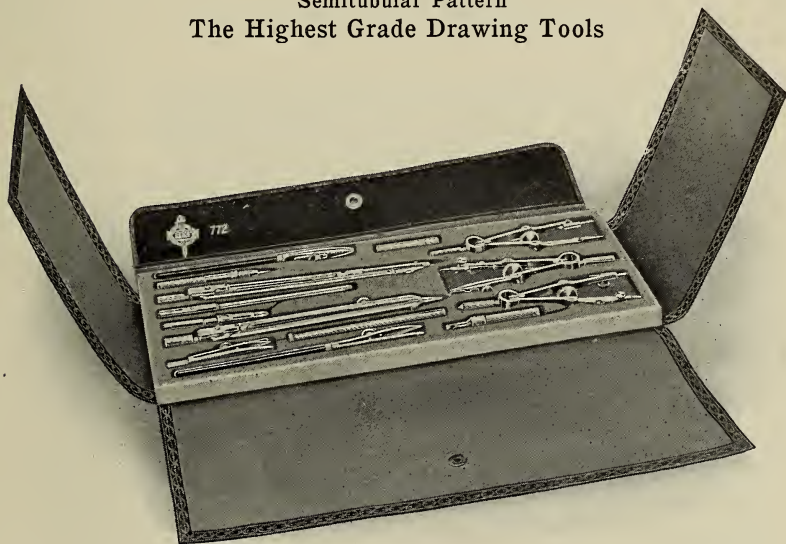
No. 745 Combination Key and Lead Box.

No. 744 Pricker.

No. 747 Metal Handle, 3 inches, with 4 needles.

Per set\$23.00

“REX” BRAND
 Semitubular Pattern
 The Highest Grade Drawing Tools



772

An Excellent College Set

The “Rex” Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the “Tec” Brand instruments. The only difference is in the pattern.

772. Containing

- No. 740 Ruling Pen, 4½ inches.
- No. 742 Ruling Pen, 5½ inches.
- No. 759H Hair-Spring Dividers, 6 inches.
- No. 750 Bow-Dividers, center adjustment, 3½ inches.
- No. 751 Bow-Pencil, center adjustment, 3½ inches.
- No. 752 Bow-Pen, center adjustment, 3½ inches.
- No. 766 Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar.
- No. 747 Metal Handle, 3 inches, with 4 needles.
- No. 744 Pricker.
- No. 745 Combination Key and Lead Box.

Per set\$28.00

"REX" BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



774

Designed for High-Grade Drafting Work

The "Rex" Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the "Tec" Brand instruments. The only difference is in the pattern

774. Containing

- No. 740 Ruling Pen, 4½ inches.
- No. 741 Ruling Pen, 5 inches.
- No. 743 Detail Ruling Pen, 6 inches.
- No. 759H Hair-Spring Dividers, 6 inches.
- No. 750 Bow-Dividers, center adjustment, 3½ inches.
- No. 751 Bow-Pencil, center adjustment, 3½ inches.
- No. 752 Bow-Pen, center adjustment, 3½ inches.
- No. 765 Compasses, 4½ inches, with pencil, pen, and needle points.
- No. 766 Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar.
- No. 747 Metal Handle, 3 inches, with 4 needle points.
- No. 744 Pricker.
- No. 745 Combination Key and Lead Box.

Per set\$35.00

“REX” BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



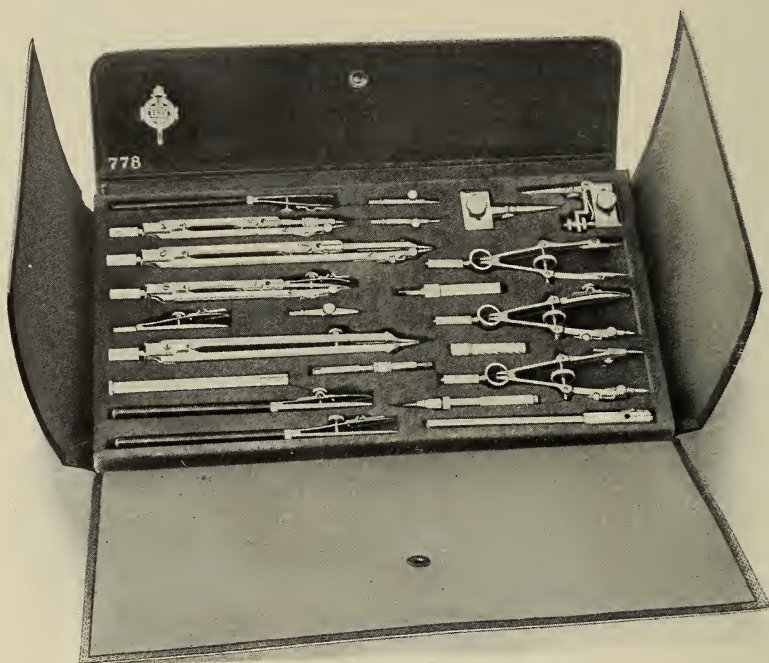
775

The “Rex” Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the “Tec” Brand instruments. The only difference is in the pattern. 775. Containing

- No. 740 Ruling Pen, 4½ inches.
 - No. 741 Ruling Pen, 5 inches.
 - No. 742 Ruling Pen, 5½ inches.
 - No. 759H Hair-Spring Dividers, 6 inches.
 - No. 750 Bow-Dividers, center adjustment, 3½ inches.
 - No. 751 Bow-Pencil, center adjustment, 3½ inches.
 - No. 752 Bow-Pen, center adjustment, 3½ inches.
 - No. 763 Compasses, 4½ inches, fixed pen point.
 - No. 764 Compasses, 4½ inches, fixed pencil point.
 - No. 766 Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar.
 - No. 747 Metal Handle, 3 inches, with 4 needle points.
 - No. 744 Pricker.
 - No. 745 Combination Key and Lead Box.
- Per set\$40.00.



"REX" BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



778

778. Containing
- No. 740 Ruling Pen, $4\frac{1}{2}$ inches.
 - No. 741 Ruling Pen, 5 inches.
 - No. 742 Ruling Pen, $5\frac{1}{2}$ inches.
 - No. 759H Hair-Spring Dividers, 6 inches.
 - No. 750 Bow-Dividers, center adjustment.
 - No. 751 Bow-Pencil, center adjustment.
 - No. 752 Bow-Pen, center adjustment.
 - No. 763 Compasses, $4\frac{1}{2}$ inches, fixed pen point.
 - No. 764 Compasses, $4\frac{1}{2}$ inches, fixed pencil point.
 - No. 766 Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar.
 - No. 747 Metal Handle, 3 inches.
 - No. 744 Pricker.
 - No. 745 Combination Key and Lead Box.
 - No. 621 Beam Compasses.
- Per set\$48.00



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



"REX" BRAND

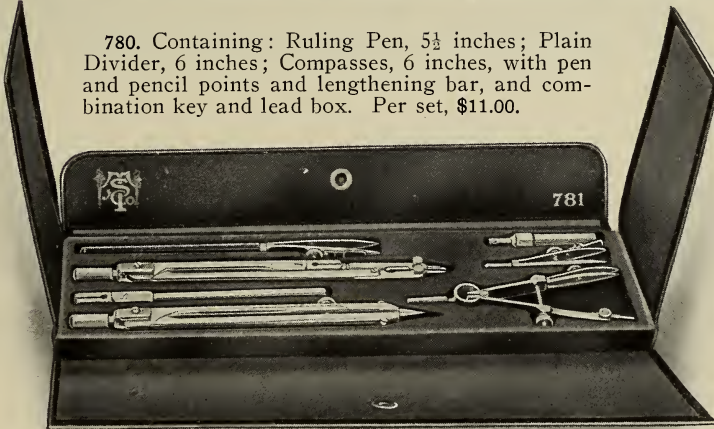
Semitubular Pattern

The Highest Grade Drawing Tools



780

780. Containing: Ruling Pen, $5\frac{1}{2}$ inches; Plain Divider, 6 inches; Compasses, 6 inches, with pen and pencil points and lengthening bar, and combination key and lead box. Per set, \$11.00.

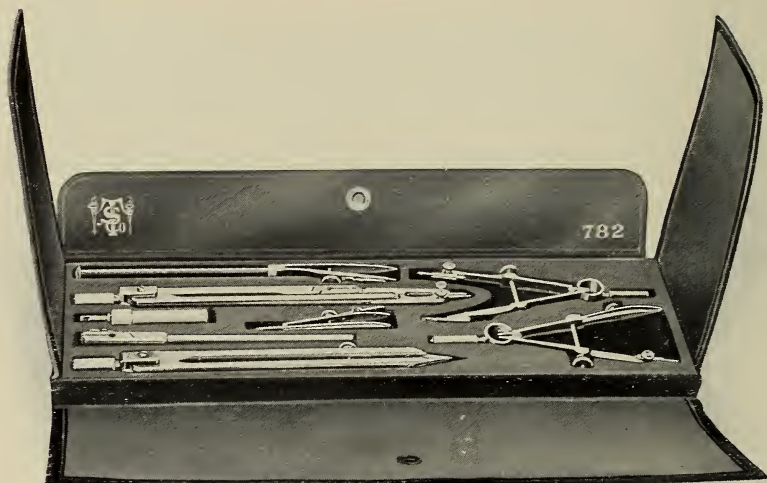


781

781. Containing: Ruling Pen, $5\frac{1}{2}$ inches; Hair-Spring Dividers, 6 inches; Circular Spring Bow-Pen, $3\frac{1}{2}$ inches; Compasses, 6 inches, with pen and pencil points and lengthening bar and combination key and lead box. Per set, \$13.50.



"REX" BRAND
 Semitubular Pattern
 The Highest Grade Drawing Tools



782

The "Rex" Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the "Tec" Brand instruments. The only difference is in the pattern.

782. Containing

Ruling Pen, 5½ inches.

Hair-Spring Dividers, 6 inches.

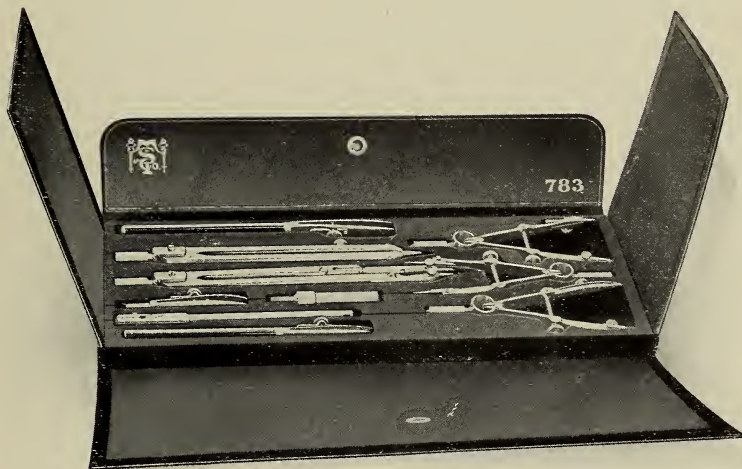
Circular Spring Bow-Pen, 3½ inches.

Circular Spring Bow-Pencil, 3½ inches.

Compasses, 6 inches, with pen and pencil points and lengthening bar and combination key and lead box.

Per set\$16.00

“REX” BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



783

The “Rex” Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the “Tec” Brand instruments. The only difference is in the pattern.

783. Containing

Ruling Pen, 4½ inches.

Ruling Pen, 5½ inches.

Hair-Spring Dividers, 6 inches.

Circular Spring Bow-Dividers, 3½ inches.

Circular Spring Bow-Pen, 3½ inches.

Circular Spring Bow-Pencil, 3½ inches.

Compasses, 6 inches, with pen and pencil points and lengthening bar and combination key and lead box.

Per set\$20.00

"REX" BRAND

Semitubular Pattern

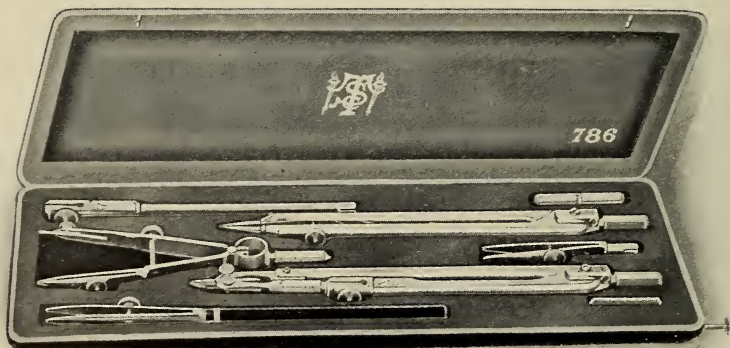
The Highest Grade Drawing Tools



785. Containing
Ruling Pen, 5½ inches.
Plain Dividers, 6 inches.
Compasses, with needle, pen, and pencil points and lengthening bar and
box of leads.
Per set

785

\$6.50

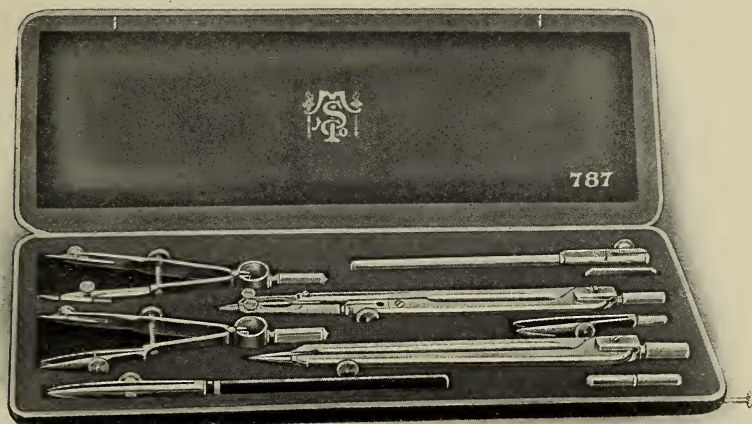


786. Containing
Ruling Pen, 5½ inches.
Compasses, 6 inches, with needle, pen, and pencil points and lengthening
bar and box of leads.

786

Hair-Spring Dividers, 6 inches.
Circular Spring Bow-Pen, 3½ inches.
pen, and pencil points and lengthening
Per set

“REX” BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



787

The “Rex” Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the “Tec” Brand instruments. The only difference is in the pattern.

787. Containing

Ruling Pen, 5½ inches.

Circular Spring Bow-Pen, 3½ inches.

Circular Spring Bow-Pencil, 3½ inches.

Hair-Spring Dividers, 6 inches.

Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar and box of leads.

Per set\$10.00



"REX" BRAND
Semitubular Pattern
The Highest Grade Drawing Tools



788

The "Rex" Brand Semitubular instruments shown above represent the same skilled workmanship and the same high-grade material that characterizes the "Tec" Brand instruments. The only difference is in the pattern.

788. Containing

Ruling Pen, 4½ inches.

Ruling Pen, 5½ inches.

Hair-Spring Dividers, 6 inches.

Circular Spring Bow-Dividers, 3½ inches.

Circular Spring Bow-Pen, 3½ inches.

Circular Spring Bow-Pencil, 3½ inches.

Compasses, 6 inches, with needle, pen, and pencil points and lengthening bar and box of leads.

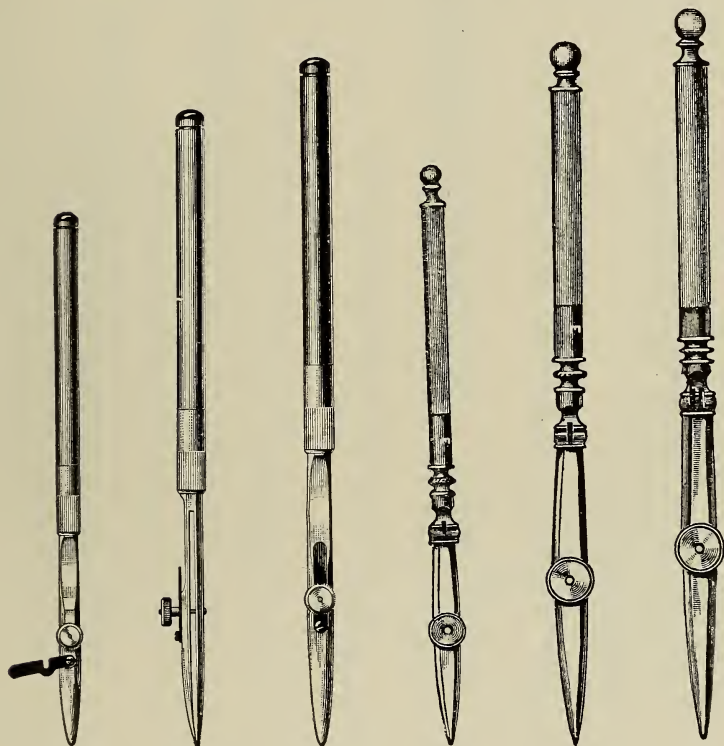
Per set\$12.50

788 P. B. Same as 788, but in Pocketbook Case.

Per set\$13.50



"COLLEGIATE" BRAND
Selected German Silver Instruments, Steel Points



800

802

803

806

807

808

"Collegiate" Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

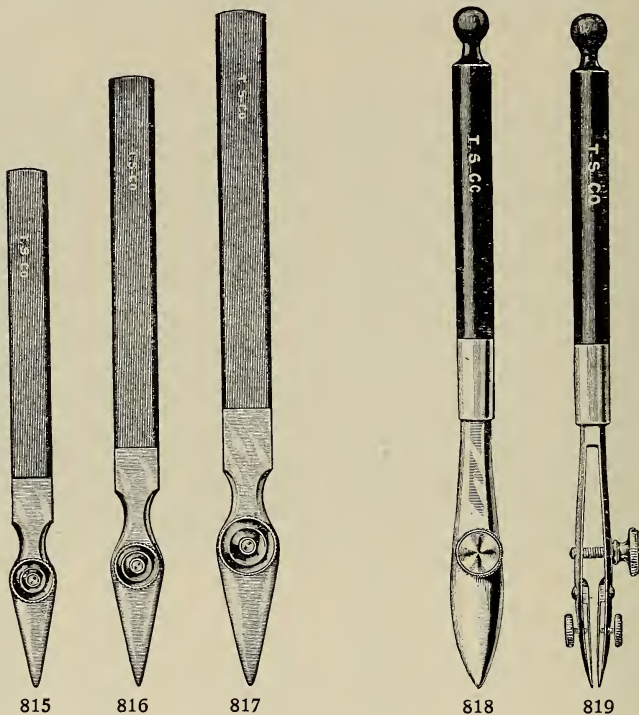
- | | |
|--|-------|
| | Each |
| 800. Ruling Pen, ebony handle, upper blade with spring, $4\frac{1}{4}$ inches..... | \$.90 |
| 802. Ruling Pen, ebony handle, upper blade with spring, 5 inches..... | 1.00 |
| 803. Ruling Pen, ebony handle, upper blade with spring, $5\frac{1}{2}$ inches..... | 1.10 |
| 806. Ruling Pen, ebony handle, with pin and joint, $4\frac{3}{4}$ inches, with hinge | 1.05 |
| 807. Ruling Pen, ebony handle, with pin and joint, $5\frac{1}{2}$ inches, with hinge | 1.15 |
| 808. Ruling Pen, ebony handle, with pin and joint, $6\frac{1}{2}$ inches, with hinge | 1.25 |

Aluminum handles furnished for Nos. 800, 802, and 803 at 10 cents additional.

Pens carefully sharpened and polished for 25 cents each

“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points



“Collegiate” Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for the ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

SWEDISH RULING PENS

- | | Each |
|---|--------|
| 815. Ebony handle, upper blade with spring, 5 inches, for long lines..... | \$1.30 |
| 816. Ebony handle, upper blade with spring, 6 inches, for long lines..... | 1.45 |
| 817. Ebony handle, upper blade with spring, 7 inches, for long lines..... | 1.65 |

DETAIL PENS

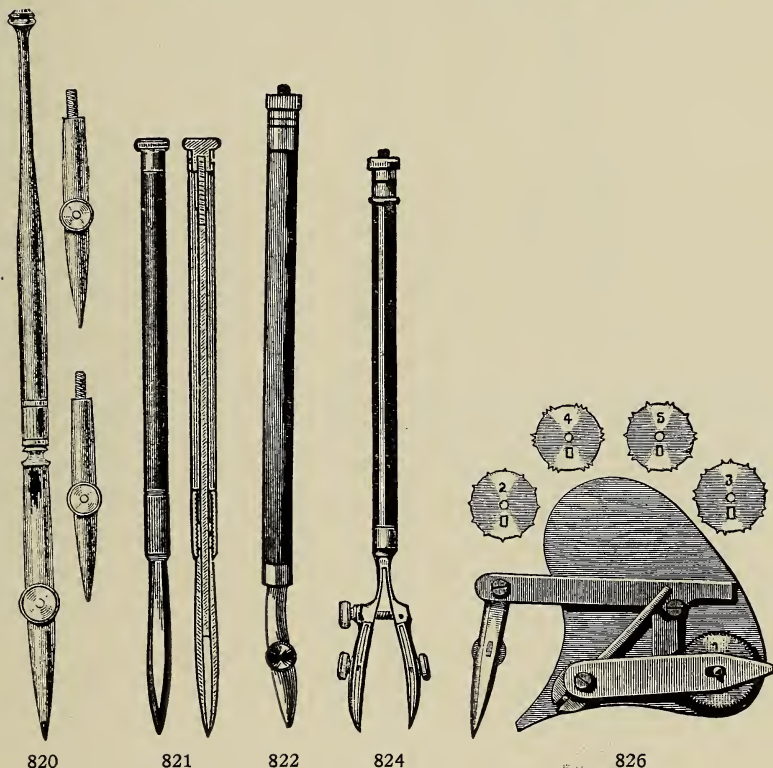
- | | |
|---|--------------|
| 818. Ebony handle, $6\frac{1}{4}$ inches..... | each, \$2.00 |
| 819. Ebony handle, $6\frac{3}{4}$ inches, for double lines..... | each, 3.25 |

These pens are made to hold a great deal of ink, and, not requiring frequent refilling, are best adapted for drawing long and heavy lines.

Pens carefully sharpened and polished for 25 cents each.

“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points



820. Hatching Pen, with pushing screw, 5 inches, with three pens to handle each, \$2.50
- 820C. Same as 820, in case each, 3.00
821. Ruling Pen, wedge regulated at upper end of handle.....each, 2.00
822. Curve Pen, $4\frac{3}{4}$ inches, blades fastened to a rod in a hollow handle, with setscrew at upper end to set firm or loose.....each, 1.60
824. Railroad Pen, $5\frac{1}{4}$ inches, for straight or curved lines, regulated by the screw at the top of handle.....each, 4.00
826. Dotted Instrument, with six wheels, in case.....each, 4.50

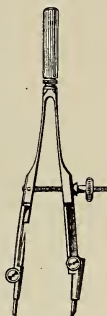
By throwing back the spring, the wheels of different patterns are inserted. The wheel is rolled on edge of a T square or straightedge and causes the pen to move up and down by means of a ratchet wheel.

“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points



830



831

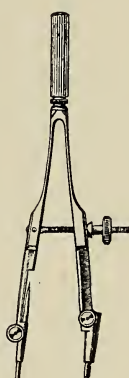


832

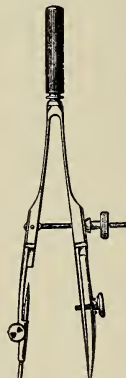
830. Minute Steel Spring Bow-Dividers, metal handle, $2\frac{1}{2}$ inches...each, \$1.25
 831. Minute Steel Spring Bow-Pencil, metal handle, $2\frac{1}{2}$ inches.....each, 1.50
 832. Minute Steel Spring Bow-Pen, metal handle, $2\frac{1}{2}$ inches.....each, 1.50
 833. Set of Bows, Nos. 830, 831, and 832, in morocco case, silk-velvet lined each, 4.80



840



841



842

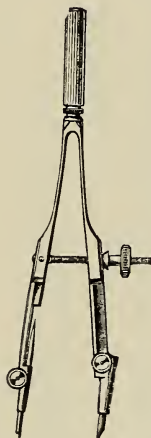
840. Steel Spring Bow-Dividers, 3 inches, metal handle.....each, \$1.25
 841. Steel Spring Bow-Pencil, 3 inches, metal handle.....each, 1.50
 842. Steel Spring Bow-Pen, 3 inches, metal handle.....each, 1.50
 843. Set of Bows, Nos. 840, 841, and 842, in morocco case, silk-velvet lined each, 4.80

“COLLEGIATE” BRAND

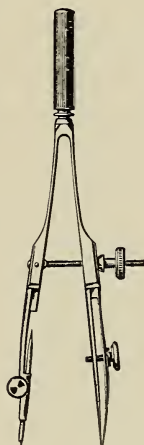
Selected German Silver Instruments, Steel Points



850



851



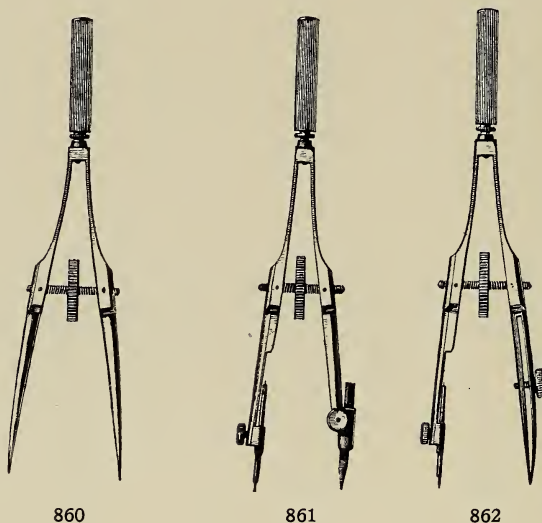
852

“Collegiate” Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

- 850. Steel Spring Bow-Dividers, 3½ inches, metal handle.....each, \$1.35
- 851. Steel Spring Bow-Pencil, 3½ inches, metal handle.....each, 1.60
- 852. Steel Spring Bow-Pen, 3½ inches, metal handle.....each, 1.60
- 853. Set of Bows, Nos. 850, 851, and 852, in morocco case, silk-velvet lined each, 5.10

“COLLEGIATE” BRAND

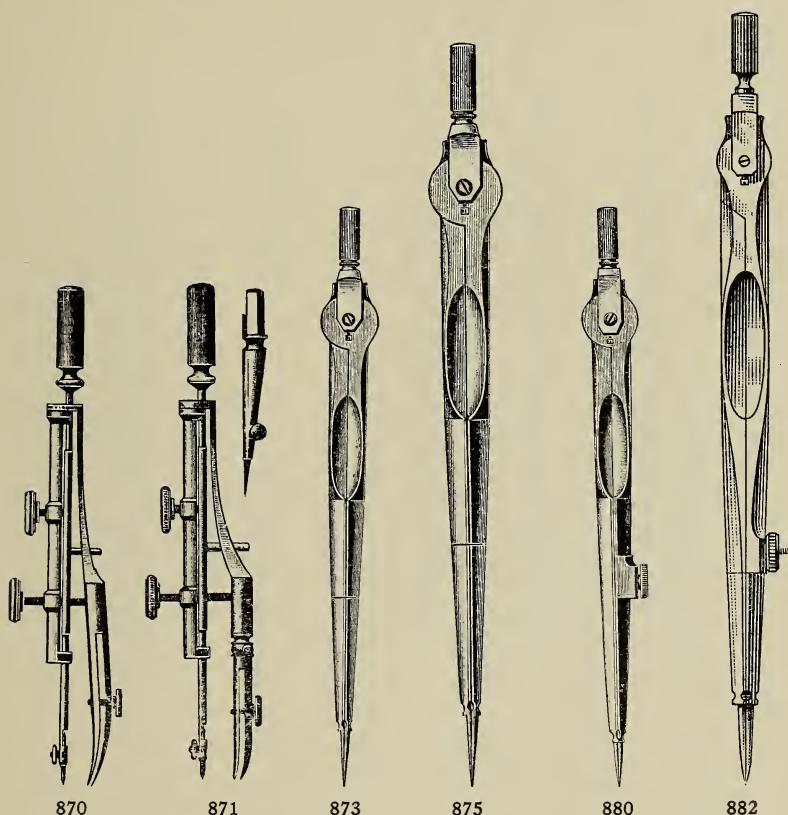
Selected German Silver Instruments, Steel Points



“Collegiate” Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

- 860. Steel Spring Bow-Dividers, 3½ inches, metal handle.....each, \$1.60
- 861. Steel Spring Bow-Pencil, 3½ inches, metal handle.....each, 2.00
- 862. Steel Spring Bow-Pen, 3½ inches, metal handle.....each, 2.00
- 863. Set of Bows, Nos. 860, 861, and 862, in morocco case, silk-velvet lined each, 6.70

"COLLEGIATE" BRAND
Selected German Silver Instruments, Steel Points

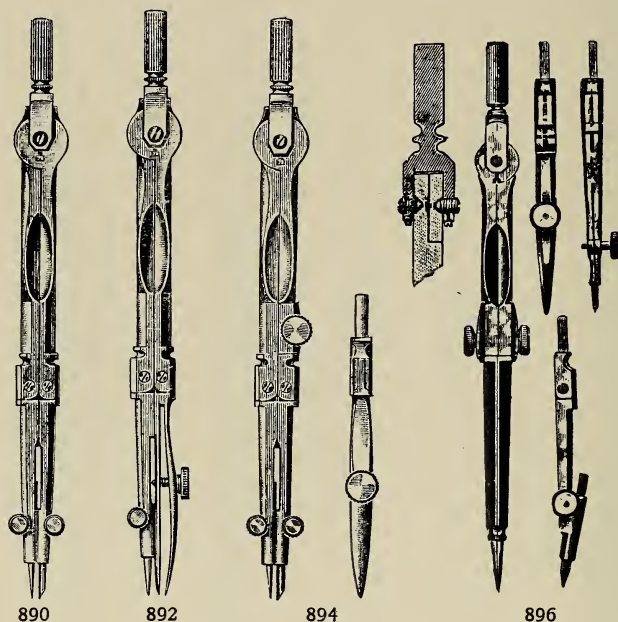


"Collegiate" Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

- | | |
|---|--------------|
| 870. Spring Bow-Pen, self-adjusting..... | each, \$3.25 |
| 871. Spring Bow-Pen, self-adjusting, with pencil point..... | each, 3.50 |
| 873. Plain Dividers, 4½ inches, pivot joint..... | each, 1.35 |
| 875. Plain Dividers, 6 inches, pivot joint..... | each, 1.65 |
| 880. Hair-Spring Dividers, 4½ inches, pivot joint..... | each, 2.10 |
| 882. Hair-Spring Dividers, 6 inches, pivot joint..... | each, 2.55 |

“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points

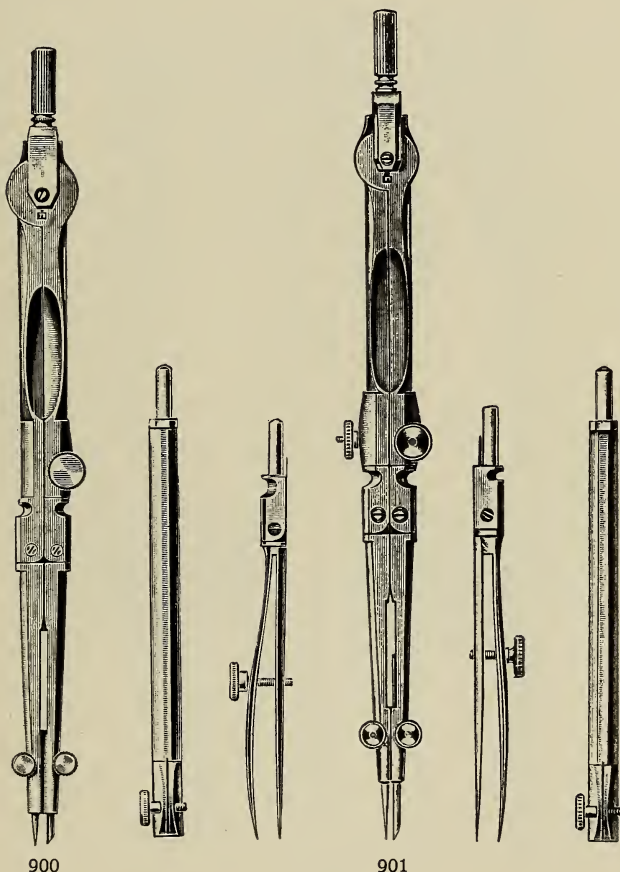


“Collegiate” Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

- 890. Compasses, $4\frac{1}{4}$ in., fixed needle and pencil point, pivot joint...each, \$3.00
- 892. Compasses, $4\frac{1}{4}$ in., fixed needle and pen point, pivot joint....each, 3.00
- 894. Compasses, $4\frac{1}{4}$ in., needle and pencil and pen points, pivot joint each, 3.60
- 896. Compasses, $4\frac{1}{4}$ inches, with two steel points, pen, pencil, and needle points, pivot joint each, 4.20

“COLLEGIATE” BRAND

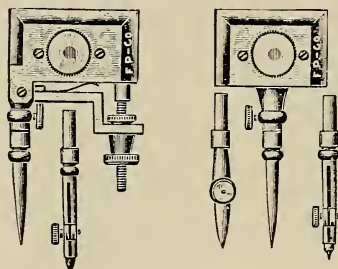
Selected German Silver Instruments, Steel Points



900. Compasses, 6 inches, fixed needle, and pen and pencil points, and lengthening bar, pivot joint each, \$4.40
901. Compasses, 6 inches, fixed needle point and hair spring, and pencil and pen points, and lengthening bar, pivot joint.....each, 5.00
902. Compasses, 6 inches, pencil, pen, and needle points, two steel points, and lengthening bar, pivot joint.....each, 5.00

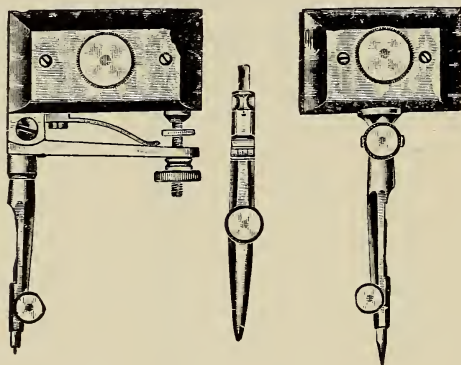
“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points



915

915. Midget Beam Compasses, to fit any straightedge, with two steel points, pen, pencil, and needle points.....each, \$7.50
- 915C. Morocco Case, silk-velvet lined, to fit No. 915.....each, 1.25

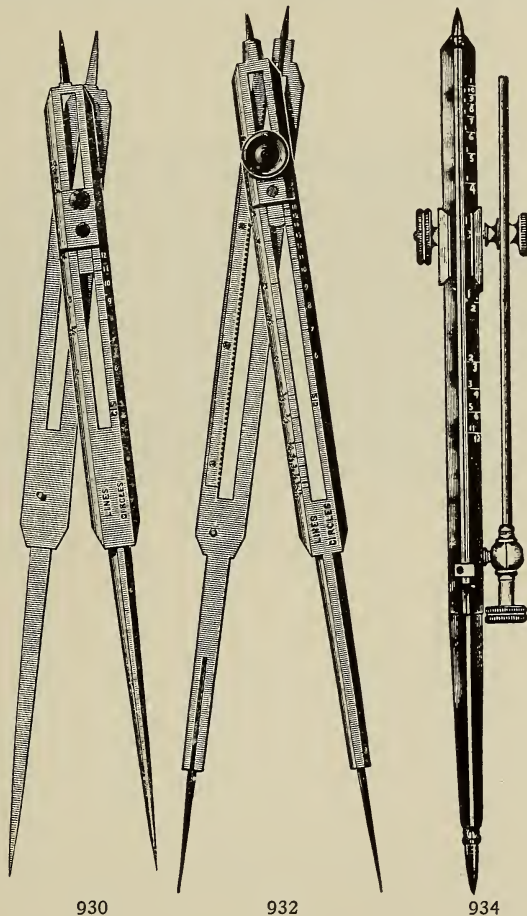


920

920. Beam Compasses, to fit any straightedge, with two needle points, points exchangeable for lead and pen points and micrometer adjustment each, \$9.00
- 920C. Morocco Case to fit No. 920.....each, 1.25

“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points



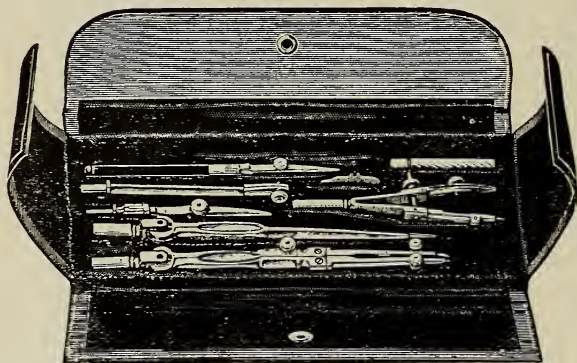
- 930

932

934
- 930. Proportional Dividers, $7\frac{1}{4}$ in., for lines and circles, in case... each, \$10.00
 - 931. Proportional Dividers, $9\frac{1}{4}$ in., for lines and circles, in case... each, 10.50
 - 932. Proportional Dividers, $7\frac{1}{4}$ in., with rack movement, for lines, circles, planes, and solids, in case.....each, 12.00
 - 934. Proportional Dividers, $9\frac{1}{4}$ inches, with micrometer adjustment, for lines and circles, in case.....each, 19.50



"COLLEGIATE" BRAND
 Selected German Silver Instruments, Steel Points



960

"Collegiate" Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

960. Containing

No. 802 Ruling Pen, 5 inches, with spring and ebony handle.

No. 852 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.

No. 875 Plain Dividers, 6 inches, pivot joint.

No. 900 Compasses, 6 inches, with fixed needle, pen and pencil point, and lengthening bar.

Key and Box of Leads.

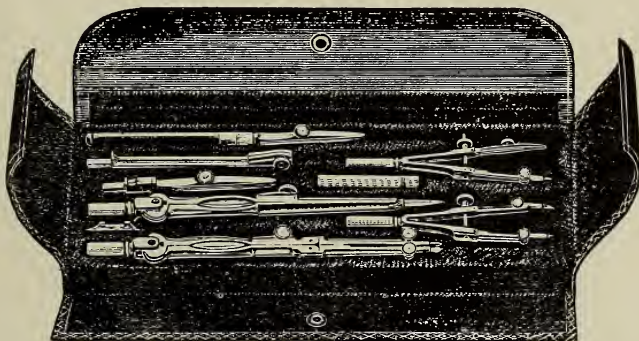
Per set\$12.50

With Circular Spring Bows at the same price.



“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points



965

“Collegiate” Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

965. Containing

No. 803 Ruling Pen, 5½ inches, with spring and ebony handle.

No. 851 Steel Spring Bow-Pencil, 3½ inches, metal handle.

No. 852 Steel Spring Bow-Pen, 3½ inches, metal handle.

No. 882 Hair-Spring Dividers, 6 inches, pivot joint.

No. 900 Compasses, 6 inches, with fixed needle, pen, and pencil point, and lengthening bar.

Key and Box of Leads.

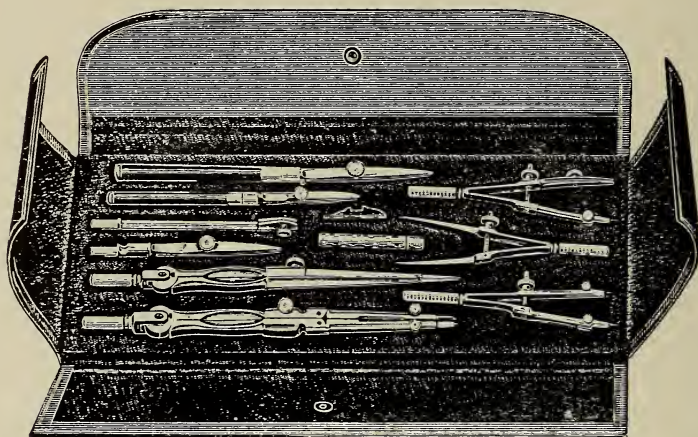
Per set\$15.00

968. Containing same as 965, but including Spring Bow-Dividers No. 850.

Per set 16.50

“COLLEGIATE” BRAND

Selected German Silver Instruments, Steel Points



970

“Collegiate” Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

970. Containing

- No. 800 Ruling Pen, $4\frac{1}{4}$ inches, with spring and ebony handle.
- No. 803 Ruling Pen, $5\frac{1}{2}$ inches, with spring and ebony handle.
- No. 850 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.
- No. 851 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.
- No. 852 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.
- No. 882 Hair-Spring Dividers, 6 inches, pivot joint.
- No. 900 Compasses, 6 inches, with fixed needle, pen, and pencil point, and lengthening bar, pivot joint.

Box of Leads.

Per set\$18.75

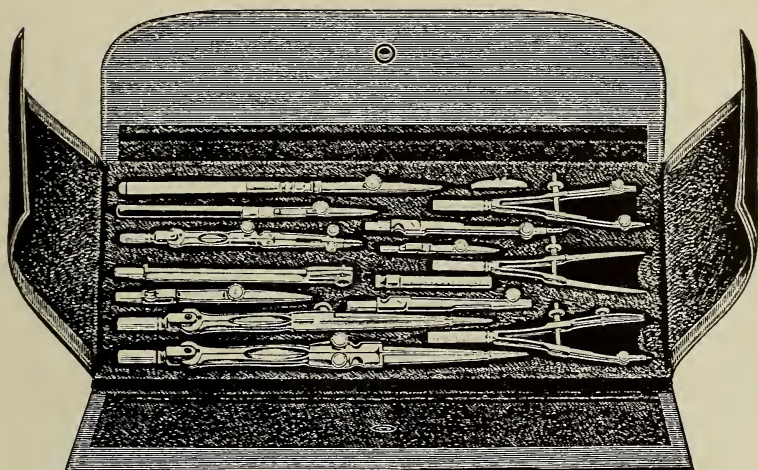
975. Containing the same as No. 970, but having center wheel bows

Nos. 860, 861, 862, in place of Nos. 850, 851, 852.

Per set 20.00

Any other assortments in morocco cases fitted up to order at short notice.

"COLLEGIATE" BRAND
Selected German Silver Instruments, Steel Points



980

A Popular College and High School Set

"Collegiate" Brand drawing instruments are made to meet the demand for a high-grade instrument at a reasonably low price. They are accurate, strong, and dependable and should, for ordinary drafting-room requirements, give efficient service for years. They are polished to a point where all surface imperfections or flaws would become immediately apparent.

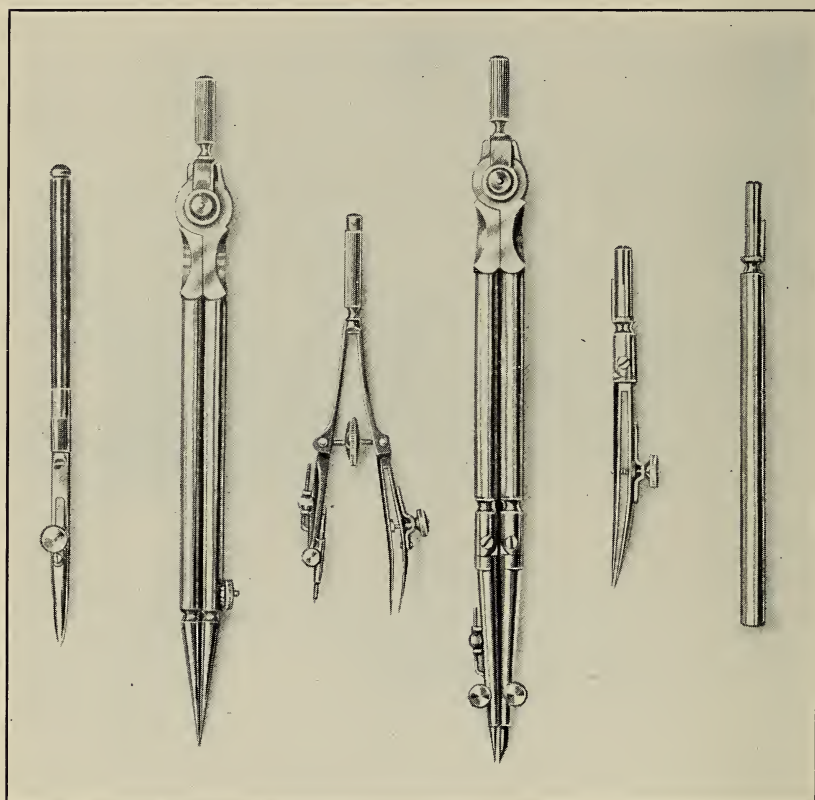
980. Containing

- No. 800 Ruling Pen, $4\frac{1}{4}$ inches, with spring and ebony handle.
- No. 807 Ruling Pen, $5\frac{1}{2}$ inches, with pin and joint, ivory handle.
- No. 850 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.
- No. 851 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.
- No. 852 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.
- No. 882 Hair-Spring Dividers, 6 inches, pivot joint.
- No. 894 Compasses, $4\frac{1}{4}$ inches, with fixed needle point, pen, and pencil points, pivot joint.
- No. 902 Compasses, 6 inches, with pencil, pen, needle points, two steel points, and lengthening bar, pivot joint.
- Box of Leads.

Per set\$25.00

“ACADEMIC” BRAND

Tubular Patterns



990

991H

994

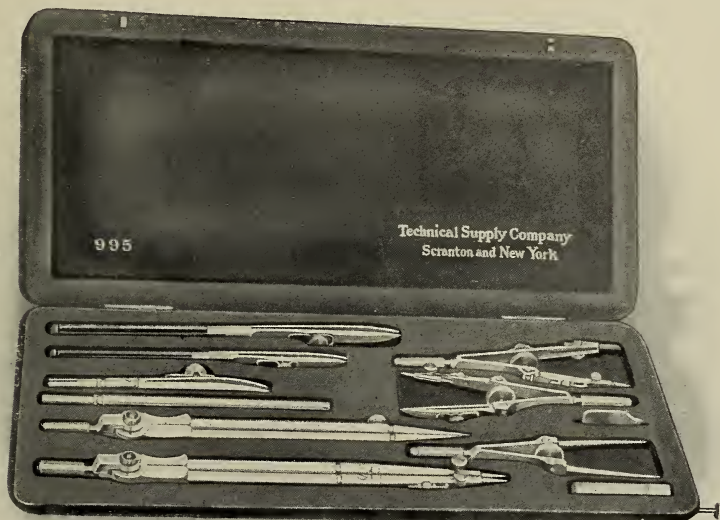
992

- | | |
|---|--------------|
| 990. Ruling Pen, ebony handle, 4½ inches..... | each, \$1.40 |
| 990B. Ruling Pen, ebony handle, 5 inches..... | each, 1.50 |
| 990C. Ruling Pen, ebony handle, 5½ inches..... | each, 1.60 |
| 991. Plain Dividers, 6 inches..... | each, 1.75 |
| 991H. Hair-Spring Dividers, 6 inches..... | each, 2.60 |
| 992. Compasses, 6 inches, fixed needle, pen, and pencil points, and lengthening bar | each, 4.25 |
| 993. Spring Bow-Dividers, 3½ inches..... | each, 1.30 |
| 994. Spring Bow-Pen, 3½ inches..... | each, 1.60 |
| 994A. Spring Bow-Pencil, 3½ inches..... | each, 1.60 |



"ACADEMIC" BRAND

Tubular Patterns



995

995. Containing

No. 990A Ruling Pen, $4\frac{1}{2}$ inches.

No. 990C Ruling Pen, $5\frac{1}{2}$ inches.

No. 991H Hair-Spring Dividers, 6 inches.

No. 992 Compasses, 6 inches, fixed needle, pen, and pencil points and lengthening bar.

No. 993 Bow-Spacer, $3\frac{1}{2}$ inches.

No. 994 Bow-Pen, $3\frac{1}{2}$ inches.

No. 994A Bow-Pencil, $3\frac{1}{2}$ inches.

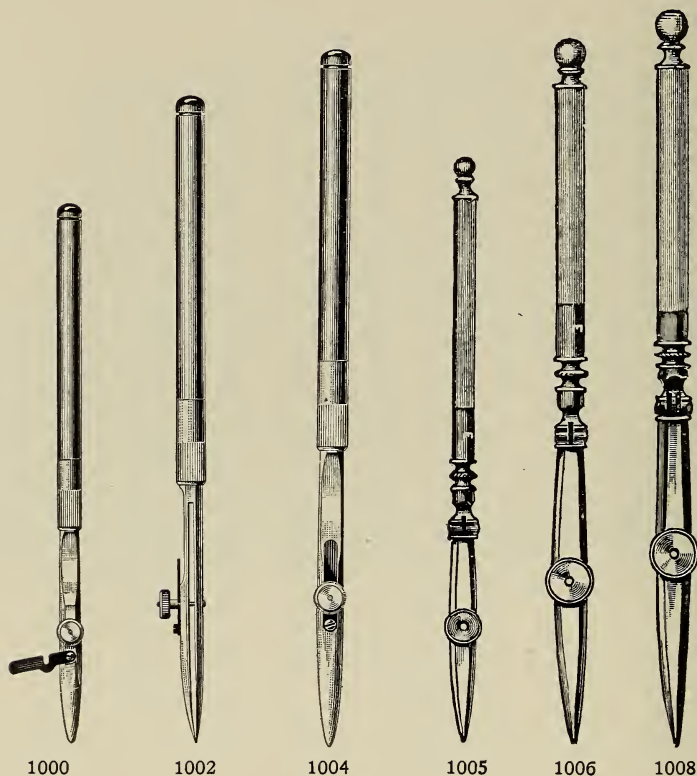
Box of Leads.

Per set\$17.00

996. Same as 995, in Pocketbook Case.....\$18.00

“ACADEMIC” BRAND

Regular Pattern



- | | |
|--|--------------|
| 1000. Ruling Pen, 4½ inches, release spring, ebony handle..... | each, \$.70 |
| 1002. Ruling Pen, 5 inches, release spring, ebony handle..... | each, .75 |
| 1004. Ruling Pen, 5½ inches, release spring, ebony handle..... | each, .80 |
| 1005. Ruling Pen, 4½ inches, fine joint | each, .90 |
| 1006. Ruling Pen, 5 inches, fine joint | each, .95 |
| 1007. Ruling Pen, 5½ inches, fine joint..... | each, 1.00 |
| 1008. Ruling Pen, 4½ inches, fine joint and pin..... | each, 1.00 |

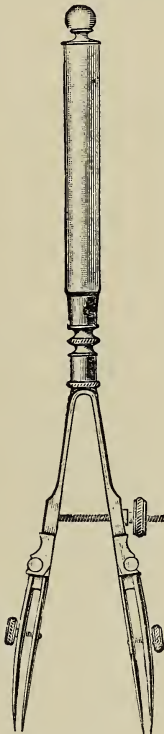
*Aluminum handles for above pens furnished at 10 cents each additional.
Pens carefully sharpened and polished, each 25 cents.*



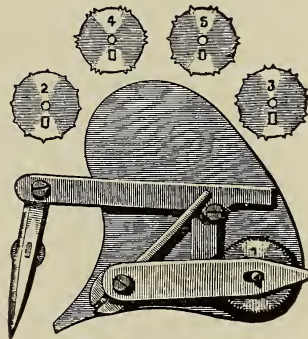
1009



1010



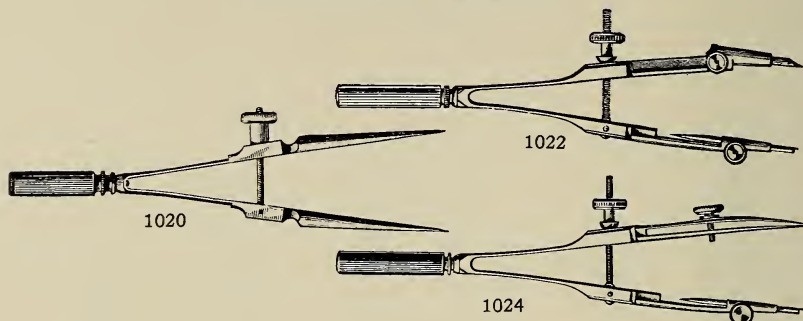
1012



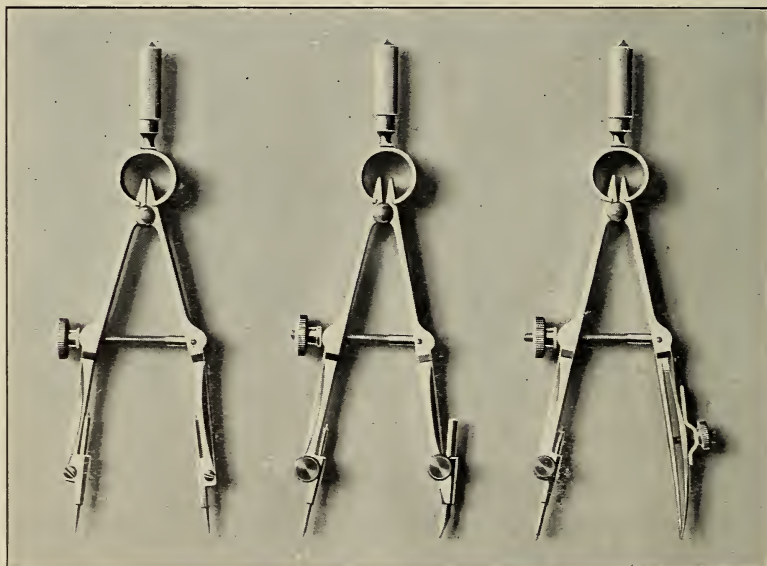
1015

1009. Ruling Pen, 5½ inches, fine joint and pin.....each, \$1.05
1010. Hatching Pen, 6 inches, with pushing screw, three pens to one handle each, 2.25
1012. Railroad Pen, 5½ inches, both pens with joint.....each, 3.25
1015. Dotting Instruments, with three wheels in case.....each, 3.60

“ACADEMIC” BRAND



1020. Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.....each, \$1.00
 1022. Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.....each, 1.30
 1024. Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.....each, 1.30
 1025. Set of Bows, Nos. 1020, 1022, 1024, in case.....per set, 4.60



1026

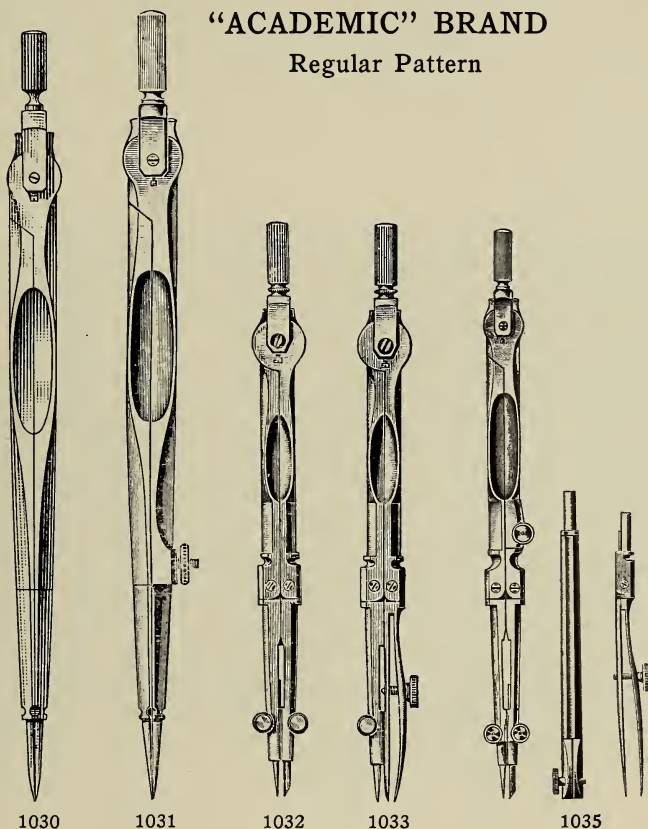
1027

1028

1026. Circular Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.....\$1.00
 1027. Circular Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle..... 1.30
 1028. Circular Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle..... 1.30
 1029. Set of Bows, Nos. 1026, 1027, 1028, in case.....per set, 4.60

"ACADEMIC" BRAND

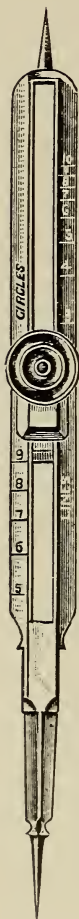
Regular Pattern



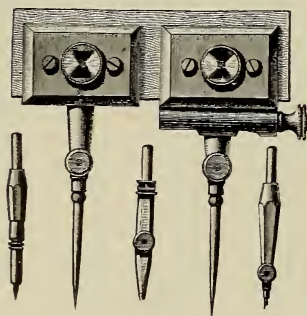
- | | |
|--|--------------|
| 1030. Plain Dividers, 6 inches..... | each, \$1.40 |
| 1031. Hair-Spring Dividers, 6 inches..... | each, 2.00 |
| 1032. Compasses, 4 $\frac{1}{4}$ inches, fixed needle and pencil points and straightening device | each, 2.90 |
| 1033. Compasses, 4 $\frac{1}{4}$ inches, fixed needle and pen points and straightening device | each, 2.90 |
| 1033A. Compasses, 4 $\frac{1}{4}$ inches, two steel points, pen, pencil, and needle points, lengthening bar, and straightening device..... | each, 4.15 |
| 1034. Compasses, 6 inches, two steel points, pen, pencil, and needle points and lengthening bar | each, 5.30 |
| 1034A. Compasses, 6 inches, with steel point pen, pencil point, lengthening bar, and straightening device..... | each, 4.25 |
| 1035. Compasses, 6 inches, with pencil and pen point, and lengthening bar, and straightening device..... | each, 4.00 |

"ACADEMIC" BRAND

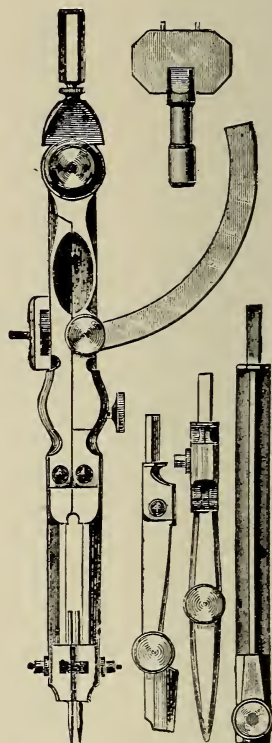
Regular Pattern



1036



1037



1038

- | | |
|---|---------------|
| 1036. Proportional Dividers, 7 inches, in case..... | each, \$10.25 |
| 1037. Beam Compass, fitting any straightedge, with two steel points, pencil, pen, and needle points..... | each, 10.50 |
| 1038. Lithographic Compasses, very strong, with arc, setscrew, micrometer adjustment, with pencil and pen point, lengthening bar, and key, 8 inches, in case..... | each, 25.00 |
| Morocco Case, for any of above | each, 1.75 |



“ACADEMIC” BRAND
Regular Pattern



1040

1040. Containing
- No. 1002 Ruling Pen, 5 inches, with release spring.
 - No. 1033A Compasses, $4\frac{1}{4}$ inches, with two steel points, pen, pencil, and needle point.
 - Box of Leads.
- Per set\$7.00



"ACADEMIC" BRAND
Regular Pattern



1042

1042. Containing

No. 1004 Ruling Pen, 5½ inches, with release spring.

No. 1035 Compasses, 5½ inches, with pen and pencil points—no lengthening bar.

Box of Leads.

Per set\$5.30



"ACADEMIC" BRAND
Regular Pattern



1050

1050. Containing

No. 1004 Ruling Pen, 5½ inches, with joint.

No. 1030 Plain Dividers, 5 inches.

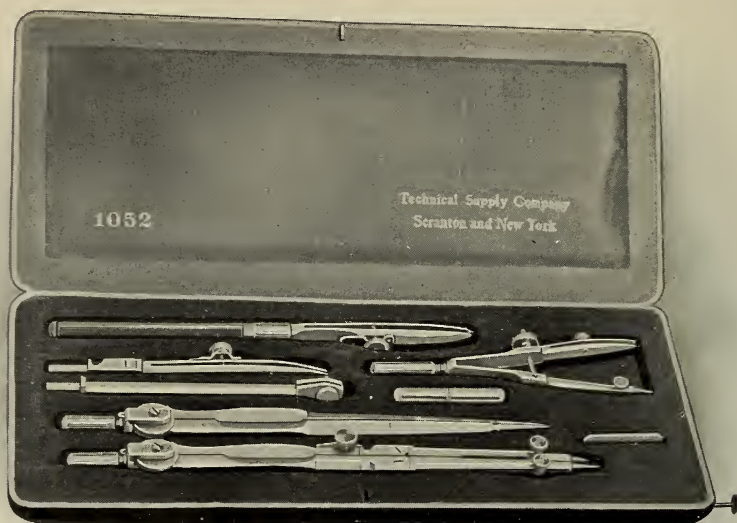
No. 1034A Compasses, 5½ inches, with steel point, pen and pencil points,
and lengthening bar.

Box of Leads.

Per set\$6.50



"ACADEMIC" BRAND
Regular Pattern



1052

1052. Containing

No. 1004 Ruling Pen, 5½ inches, with joint and pen.

No. 1024 Steel-Spring Bow-Pen, 3½ inches, metal handle.

No. 1030 Plain Dividers, 5 inches.

No. 1035 Compasses, 5½ inches, with fixed needle point, pen, pencil point, and lengthening bar.

Box of Leads.

Per set\$7.90

1052 P. B. Same as 1052, in Pocketbook-Style Case.....per set, \$8.90

No. 1028 Circular Spring Bows in place of 1024, if desired, at the same price.

“ACADEMIC” BRAND

Regular Pattern



1054

1054. Containing

No. 1004 Ruling Pen, ebony handle, 5½ inches, with release spring.

No. 1022 Steel Spring Bow-Pencil, 3½ inches, metal handle.

No. 1024 Steel Spring Bow-Pen, 3½ inches, metal handle.

No. 1030 Plain Dividers, 5 inches.

No. 1034A Compasses, 5½ inches, with fixed needle point, pen and pencil point, and lengthening bar.

Box of Leads.

Per set\$ 9.25

1054 P. B. Same as 1054, but in Pocketbook-Style Case.....per set, 10.25



“ACADEMIC” BRAND

Regular Pattern



1055

1055. Containing

No. 1004 Ruling Pen, ebony handle, $5\frac{1}{2}$ inches, with release spring.

No. 1022 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.

No. 1024 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.

No. 1031 Hair-Spring Dividers, 5 inches.

No. 1035 Compasses, $5\frac{1}{2}$ inches, with fixed needle point, pen and pencil point, and lengthening bar.

Box of Leads.

Per set\$ 9.90

1055 P. B. Same as 1055, but in Pocketbook-Style Case.....per set, 10.90

Circular Spring Bows 1028 and 1027 in place of Regular Bows, if desired, at the same price.



“ACADEMIC” BRAND

Regular Pattern



A Fine Manual Training Set

1060

1060. Containing
- No. 1000 Ruling Pen, 4 inches, upper blade with spring.
 - No. 1004 Ruling Pen, 5½ inches, upper blade with spring.
 - No. 1020 Steel Spring Bow-Dividers, 3½ inches, metal handle.
 - No. 1022 Steel Spring Bow-Pencil, 3½ inches, metal handle.
 - No. 1024 Steel Spring Bow-Pen, 3½ inches, metal handle.
 - No. 1031 Hair-Spring Dividers, 6 inches.
 - No. 1035 Compasses, 5½ inches, with fixed needle point, pen, pencil point, and lengthening bar.
 - Box of Leads.
- | | |
|---------------|---------|
| Per set | \$11.80 |
|---------------|---------|
1061. Containing same as 1060, but with only 1 ruling pen and plain dividers
- | | |
|---|-------|
| 1061 P. B. Same as 1061, but in Pocketbook-Style Case | 10.30 |
| 1061 P. B. Same as 1061, but in Pocketbook-Style Case | 11.50 |
- Circular Spring Bows in above sets in place of Regular Bows at the same price.*

“ACADEMIC” BRAND

Regular Pattern



An Excellent College and Manual Training Set

1065

1065. Containing

- No. 1000 Ruling Pen, $4\frac{1}{2}$ inches, with release spring.
- No. 1004 Ruling Pen, $5\frac{1}{2}$ inches, with release spring.
- No. 1020 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.
- No. 1022 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.
- No. 1024 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.
- No. 1031 Hair-Spring Dividers, 6 inches.
- No. 1035 Compasses, $5\frac{1}{2}$ inches, with fixed needle point, pen, pencil point, and lengthening bar.
- Box of Leads.
- Per set\$12.90

Circular Spring Bows in above sets in place of Regular Bows at the same price.

“ACADEMIC” BRAND

Regular Pattern



A High-Grade Drafting Set
1075A

1070. Containing

- No. 1000 Ruling Pen, $4\frac{1}{2}$ inches, with release spring.
- No. 1004 Ruling Pen, $5\frac{1}{2}$ inches, with release spring.
- No. 1020 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.
- No. 1022 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.
- No. 1024 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.
- No. 1031 Hair-Spring Dividers, 6 inches.
- No. 1033A Compasses, $4\frac{1}{2}$ inches, with two steel points, pen, pencil, and needle point.
- No. 1034 Compasses, $5\frac{1}{2}$ inches, with two steel points, pen, pencil, and needle point, and lengthening bar.
- Box of Leads.

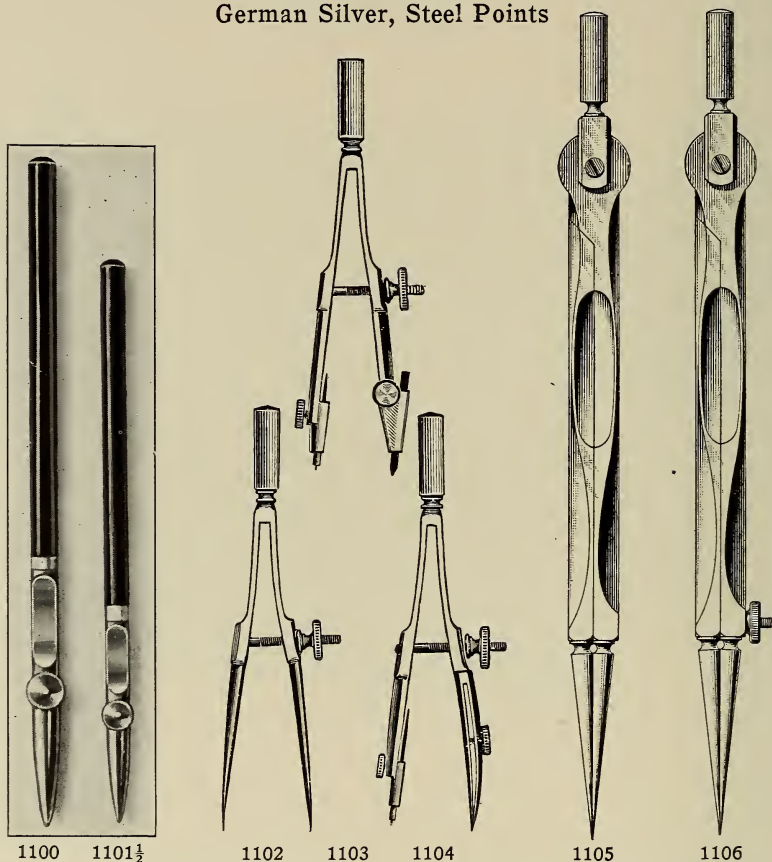
Per set\$16.00

1075. The same as No. 1070, but in Pocketbook-Style Case, per set. 17.00

Circular Spring Bows in above sets in place of Regular Bows at the same price.

"PREP" BRAND

German Silver, Steel Points

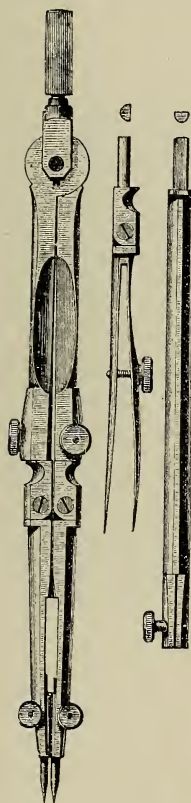


"Prep" Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

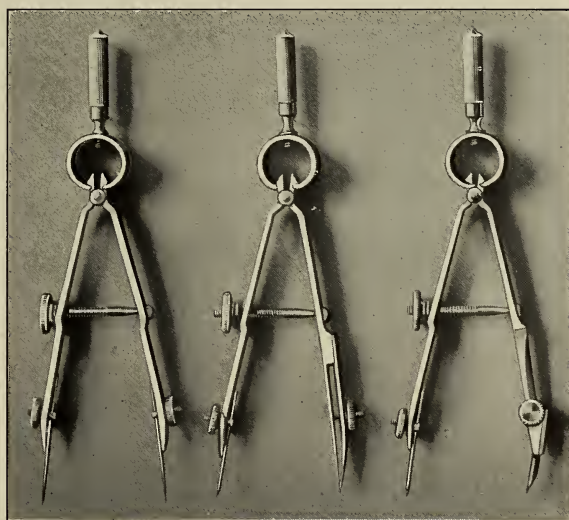
1100. Ruling Pen, spring blade, ebony handle, 5½ inches.....	each, \$.60
1101. Ruling Pen, spring blade, ebony handle, 5 inches.....	each, .55
1101½. Ruling Pen, spring blade, ebony handle, 4½ inches.....	each, .50
1102. Steel Spring Bow-Dividers, 3½ inches, metal handle.....	each, .60
1103. Steel Spring Bow-Pencil, 3½ inches, metal handle.....	each, .80
1104. Steel Spring Bow-Pen, 3½ inches, metal handle.....	each, .80
1105. Plain Dividers, 5 inches	each, .88
1106. Hair-Spring Dividers, 5 inches	each, 1.40

Aluminum handles furnished for 1100 and 1101½ at 10 cents additional.

“PREP” BRAND
 Fine German Silver, Steel Points



1007



1112

1113

1114

“Prep” Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

- | | |
|---|--------------|
| 1107. Compasses, 5 inches, with fixed needle point, pencil and pen point, and lengthening bar | each, \$2.40 |
| 1112. Circular Steel Spring Bow-Dividers, 3½ inches..... | each, .60 |
| 1113. Circular Steel Spring Bow-Pen, 3½ inches..... | each, .80 |
| 1114. Circular Steel Spring Bow-Pencil, 3½ inches..... | each, .80 |



"PREP" BRAND
Fine German Silver, Steel Points



1120

"Prep" Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

1120. Containing

No. 1101 Ruling Pen, 5 inches, with fine joint.

No. 1107 Compasses, 5 inches, with fixed needle point, pen, pencil point, and lengthening bar.

Box of Leads.

Per set\$3.15



“PREP” BRAND Fine German Silver, Steel Points



1121

“Prep” Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

1121. Containing

No. 1101 Ruling Pen, 5 inches.

No. 1105 Plain Dividers, 5 inches.

No. 1107 Compasses, 5 inches, with fixed needle point, pen, and pencil points.

Box of Leads.

Per set \$3.60

1121C. Same as 1121 and with lengthening bar added.....per set, 4.00



"PREP" BRAND
 Fine German Silver, Steel Points
 Illustrations Two-Thirds Size



1122

"Prep" Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

1122. Containing

No. 1101 Ruling Pen, 5 inches, with joint.

No. 1104 Steel Spring Bow-Pen, 3½ inches, metal handle.

No. 1107 Compasses, 5 inches, with fixed needle point, pen, pencil point, and lengthening bar.

Box of Leads.

Per set\$3.90

No. 1114 Circular Spring Bow in place of 1104, if desired, at the same price.



"PREP" BRAND

Fine German Silver, Steel Points

Illustrations Two-Thirds Size



1123

"Prep" Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

1123. Containing

No. 1101 Ruling Pen, 5 inches, ebony handle.

No. 1104 Steel Spring Bow-Pen, 3½ inches, metal handle.

No. 1105 Plain Dividers, 5 inches.

No. 1107 Compasses, 5 inches, with fixed needle point, pen, pencil point, and lengthening bar.

Box of Leads.

Per set\$4.75

1123 P. B. Same as 1123, but in Pocketbook-Style Case.....per set, 5.20

No. 1114 Circular Spring Bows in place of 1104, if desired, at the same price.



"PREP" BRAND

Fine German Silver, Steel Points

Illustrations Two-Thirds Size



1124

1124. Containing

No. 1101 Ruling Pen, 5 inches, with joint.

No. 1103 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.

No. 1104 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.

No. 1105 Plain Dividers, 5 inches.

No. 1107 Compasses, 5 inches, with fixed neelle point, pen pencil point, and lengthening bar.

Box of Leads.

Per set \$5.50

1124 P. B. Same as 1124, but in Pocketbook-Style Case.....per set, 6.00

Nos. 1113 and 1114 Circular Spring Bows in place of 1103 and 1104, if desired, at the same price.



"PREP" BRAND

Fine German Silver, Steel Points

Illustrations Two-Thirds Size



1126

"Prep" Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

1126. Containing

No. 1101 Ruling Pen, 5 inches, with joint.

No. 1102 Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches, metal handle.

No. 1103 Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches, metal handle.

No. 1104 Steel Spring Bow-Pen, $3\frac{1}{2}$ inches, metal handle.

No. 1105 Plain Dividers, 5 inches.

No. 1107 Compasses, 5 inches, with fixed needle point, pen, pencil point, and lengthening bar.

Box of Leads.

Per set \$6.10

1126 P. B. Same as 1126, but in Pocketbook-Style Case.....per set, 6.60

Nos. 1112 and 1114 Circular Spring Bows in place of 1102 and 1104, if desired, at the same price.



"PREP" BRAND

Fine German Silver, Steel Points

Illustrations Two-Thirds Size



1128

Popular Among Prep School Students

"Prep" Brand Drawing Instruments are recommended for Prep Schools, Academies, and High Schools. They will stand a great deal of wear and tear, and will give thoroughly satisfactory and long service.

1128. Containing

No. 1101 Ruling Pen, 5 inches, with joint.

No. 1101½ Ruling Pen, 4½ inches.

No. 1102 Steel Spring Bow-Dividers, 3½ inches, metal handle.

No. 1103 Steel Spring Bow-Pencil, 3½ inches, metal handle.

No. 1104 Steel Spring Bow-Pen, 3½ inches, metal handle.

No. 1106 Hair-Spring Dividers, 5 inches.

No. 1107 Compasses, 5 inches, with fixed needle point, pen, pencil point, and lengthening bar.

Box of Leads.

Per set \$7.00

1128 P. B. Same as 1128, but in Pocketbook-Style Case.....per set, 7.50

Nos. 1112 and 1114 Circular Spring Bows in place of 1102 and 1104, if desired, at the same price.



"HIGH SCHOOL" BRAND
The Highest Grade Drawing Tools
 Illustrations Two-Thirds Size



1123N

All "High School" Brand instruments are put up in Special Sets, and enough sets are shown in this section to provide for most any out of the ordinary requirements that might arise in the drafting class. At the same time the student is assured a good set of drawing tools, made in one of the finest instrument factories in the world.

1123N. Containing

No. 1100N Ruling Pen, $5\frac{1}{2}$ inches, spring blade.

No. 1104N Steel Bow-Pen, $3\frac{1}{2}$ inches.

No. 1105N Plain Dividers, $5\frac{1}{2}$ inches.

No. 1107N Compasses, $5\frac{1}{2}$ inches, with fixed needle, pen, and pencil points, and lengthening bar.

Box of Leads.

Per set\$6.50

1122N. Same as 1123N, without Plain Dividers.....per set, 5.25

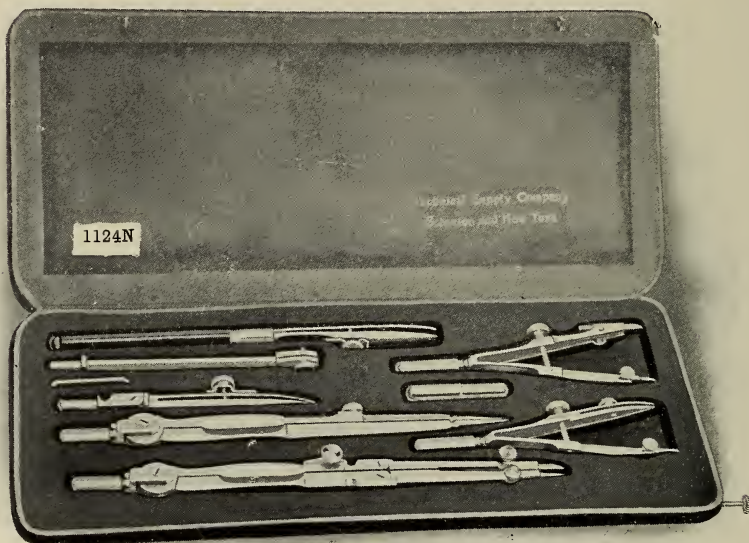
1123N-P. B. Same as 1123N, but in Pocketbook-Style Case.....per set, 7.00



“HIGH SCHOOL” BRAND

Fine German Silver, Steel Points

Illustrations Two-Thirds Size



1124N

All “High School” Brand instruments are put up in Special Sets, and enough sets are shown in this section to provide for most any out of the ordinary requirements that might arise in the drafting class. At the same time the student is assured a good set of drawing tools, made in one of the finest instrument factories in the world.

1124N. Containing

No. 1100N Ruling Pen, $5\frac{1}{2}$ inches, patent release spring.

No. 1103N Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches.

No. 1104N Steel Spring Bow-Pen, $3\frac{1}{2}$ inches.

No. 1105N Plain Dividers, $5\frac{1}{2}$ inches.

No. 1107N Compasses, $5\frac{1}{2}$ inches, with fixed needle, pencil, and pen points and lengthening bar.

Box of Leads.

Per set\$7.50

1124N-P. B. Same as 1124N, but with Pocketbook-Style Case....per set, 8.00

1126N. Containing same as 1124, with additional 1102 Bow Dividers
.....per set, 8.50

1126N-P. B. Same as 1126N, but in Pocketbook Style Case.....per set, 9.00



“HIGH SCHOOL” BRAND

Fine German Silver, Steel Points
Illustrations Two-Thirds Size



1128N-H

All “High School” Brand instruments are put up in Special Sets, and enough sets are shown in this section to provide for most any out of the ordinary requirements that might arise in the drafting class. At the same time the student is assured a good set of drawing tools, made in one of the finest instrument factories in the world.

1128N. Containing

No. 1100N Ruling Pen, $5\frac{1}{2}$ inches, patent release spring.

No. 1101 $\frac{1}{2}$ Ruling Pen, $4\frac{1}{2}$ inches, patent release spring.

No. 1102N Steel Spring Bow-Dividers, $3\frac{1}{2}$ inches.

No. 1103N Steel Spring Bow-Pencil, $3\frac{1}{2}$ inches.

No. 1104N Steel Spring Bow-Pen, $3\frac{1}{2}$ inches.

No. 1105N Plain Dividers, $5\frac{1}{2}$ inches.

No. 1107N Compasses, $5\frac{1}{2}$ inches, with fixed needle, pencil, and pen points and lengthening bar.

Box of Leads.

Per set\$ 9.50

1128N-H. Containing same as above with Hair-Spring Dividers. Per set 10.00



"HIGH SCHOOL" BRAND
 Fine German Silver, Steel Points
 Illustrations Two-Thirds Size



1128NH-P. B.
 A Dependable School and College Set

All "High School" Brand instruments are put up in Special Sets, and enough sets are shown in this section to provide for most any out of the ordinary requirements that might arise in the drafting class. At the same time the student is assured a good set of drawing tools, made in one of the finest instrument factories in the world.

1128N-P. B. Containing

- No. 1100N Ruling Pen, 5½ inches, patent release spring.
- No. 1101½N Ruling Pen, 4½ inches, patent release spring.
- No. 1102N Steel Spring Bow-Dividers, 3½ inches.
- No. 1103N Steel Spring Bow-Pencil, 3½ inches.
- No. 1104N Steel Spring Bow-Pen, 3½ inches.
- No. 1105N Plain Dividers, 5½ inches.
- No. 1107N Compasses, 5½ inches, with fixed needle, pencil, and pen points and lengthening bar.
- Box of Leads.

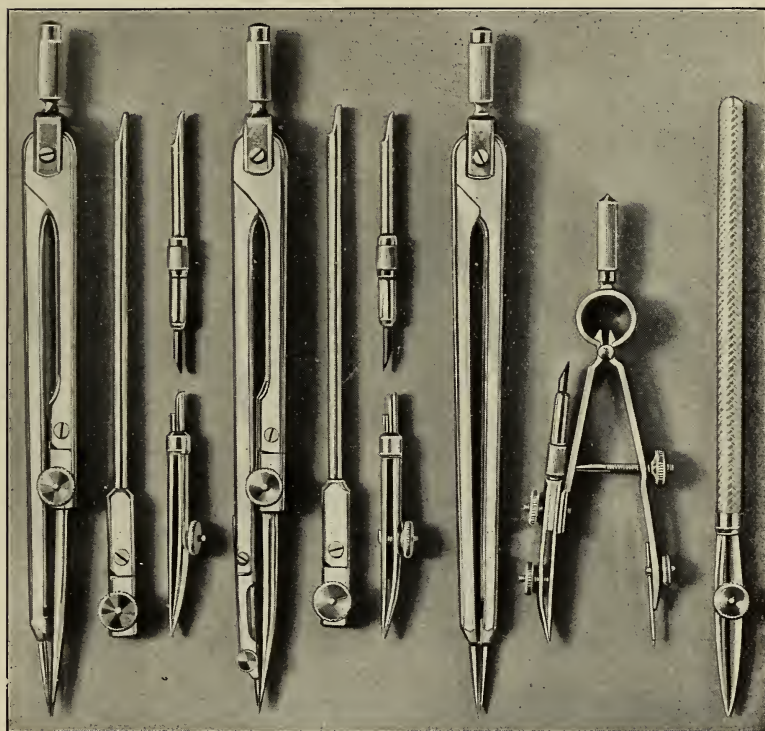
Per set\$10.25
1128NH-P. B. Containing same as 1128N-P. B., but with Hair-Spring
 Dividers per set, 10.75

“HIGH SCHOOL” BRAND

Fine German Silver, Steel Points

Illustrations Two-Thirds Size

Semitubular Pattern



1140L

1141

1142

1143

1144

These instruments differ from the Regular “High School” Brand in pattern only. The quality is the same.

1140. Compasses, 5 inches, with fixed needle, pen, and pencil points. each, \$1.50

1140L. Same as 1140, with lengthening bar.....each, 1.90

1141. Compasses, 5 inches, with interchangeable needle, pen, and pencil points each, 1.75

1141L. Same as 1141, with lengthening bar.....each, 2.25

1142. Plain Dividers, 5 inches each, 1.00

1143. Combination Circular Spring Bow-Pencil, 3½ inches.....each, 1.25

1144. Ruling Pen, 5 inches, metal handle.....each, .45



"HIGH SCHOOL" BRAND

Semitubular Pattern



1146. Containing

1146

No. 1140 Compasses, with needle, pen, and pencil points and metal handle.
Box of Leads and Metal Protractor.....per set, \$1.90



1147. Containing

1147

No. 1140 Compasses, 5 inches, with three parts, needle, pen, and pencil points and metal handle.
No. 1144 Ruling Pen, 5 inches, Leads and Protractor.....per set, \$2.25



"HIGH" SCHOOL BRAND



1148

1148. Containing: No. 1140 Compasses, with needle, pen, and pencil points and metal handle; No. 1142 Plain Dividers; No. 1144 Ruling Pen; Box of Leads and Metal Protractor. Per set, \$3.30.

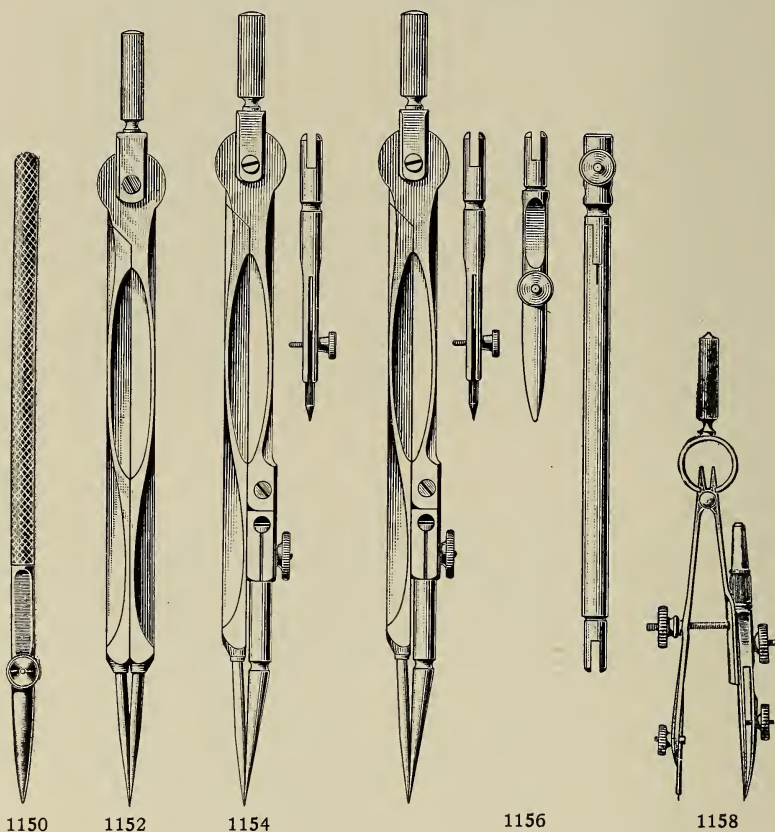


1149L

1149. Containing: No. 1140 Compasses, with needle, pen, pencil points and metal handle; No. 1142 Plain 5 in. Dividers; No. 1143 Combination Bow-Pen Pencil; No. 1144 Ruling Pen; Box Leads and Metal Protractor. Set, \$4.00. 1149L. Same as 1149 with lengthening bar; per set, \$4.50.

NICKEL-PLATED SCHOOL INSTRUMENTS

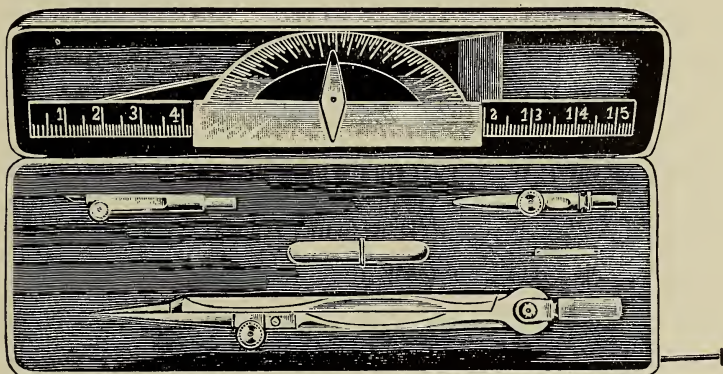
Especially Made for Elementary Grades. Compasses and Dividers Have Metal Handles. These Instruments Will Not Tarnish or Rust



- | | |
|--|--------------|
| 1150. Ruling Pen, 5 inches, ebony handle..... | each, \$.40 |
| 1152. Plain Dividers, $4\frac{1}{2}$ inches | each, .64 |
| 1154. Compasses, $4\frac{1}{2}$ inches, with pencil point..... | each, .75 |
| 1155. Compasses, $4\frac{1}{2}$ inches, with pen and pencil point..... | each, .90 |
| 1156. Compasses, $4\frac{1}{2}$ inches, with pen and pencil point and lengthening
bar | each, 1.25 |
| 1157. Steel Circular Spring Bow-Pen, $3\frac{1}{2}$ inches..... | each, .95 |
| 1158. Combination Circular Steel Spring Bow-Pen Pencil, $3\frac{1}{2}$ in.... | each, 1.10 |

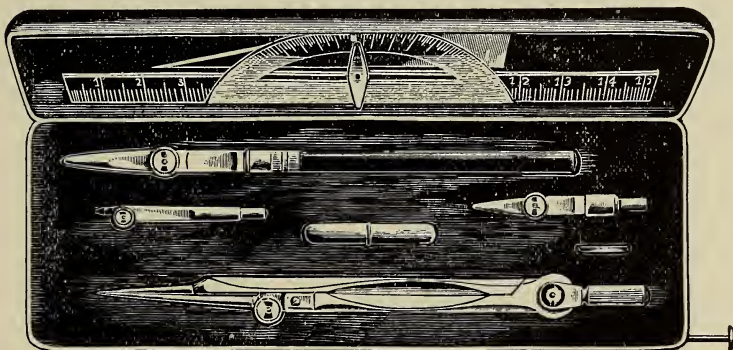
NICKEL-PLATED SCHOOL INSTRUMENTS

Especially Made for Elementary Grades. Compasses and Dividers
Have Metal Handles. These Instruments Will Not Tarnish or Rust



1160

1160. Containing nickel-plated compasses, $4\frac{1}{2}$ inches, with pencil and pen points; metal protractor, key, and box of leads.....per set, \$1.10

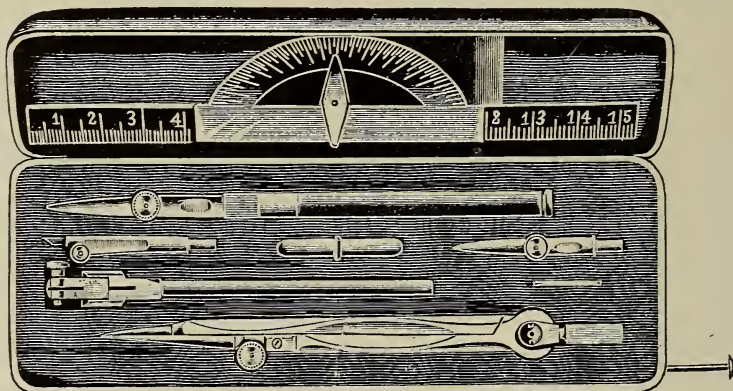


1162

1162. Containing nickel-plated compasses, $4\frac{1}{2}$ inches, with pencil and pen points and ruling pen; metal protractor, key, and box of leads per set, \$1.35

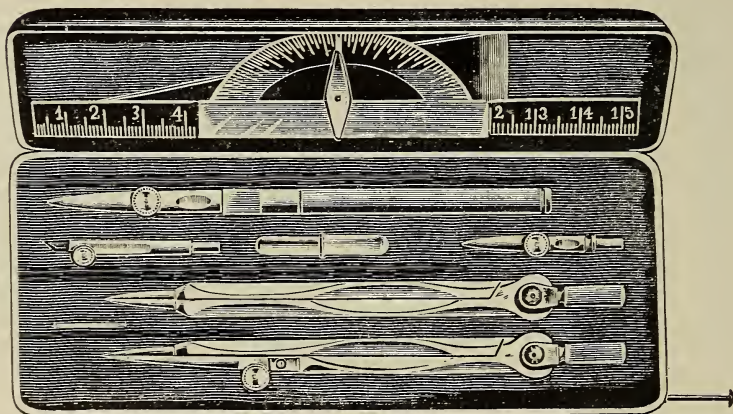
NICKEL-PLATED SCHOOL INSTRUMENTS

Especially Made for Elementary Grades. Compasses and Dividers Have Metal Handles. These Instruments Will Not Tarnish or Rust



1164

1164. Containing nickel-plated compasses, $4\frac{1}{2}$ inches, with pencil and pen points and lengthening bar; ruling pen, metal protractor, key, and box of leads.....per set, \$1.80

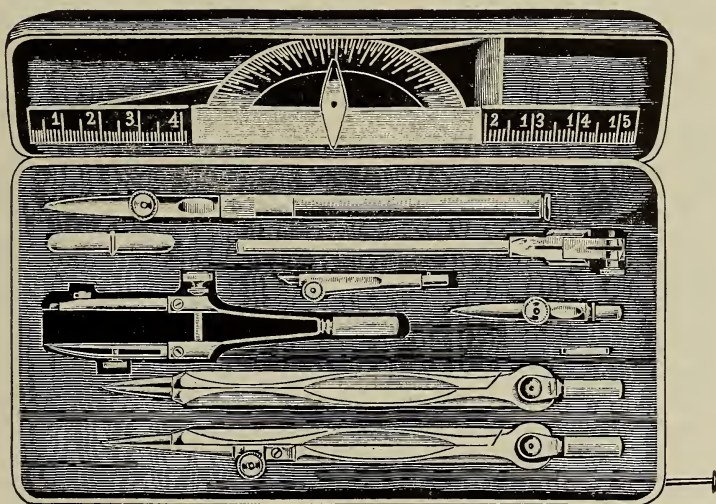


1167

1167. Containing nickel-plated 4-inch plain dividers, 5-inch ruling pen, $4\frac{1}{2}$ -inch compasses, with pencil and pen points, metal protractor, and box of leads.....per set, \$2.15
1168. Same as No. 1167, but compasses with lengthening bar.....per set, 2.40

NICKEL-PLATED SCHOOL INSTRUMENTS

Especially Made for Elementary Grades. Compasses and Dividers Have Metal Handles. These Instruments Will Not Tarnish or Rust



1170

1170. Pocket Case, containing nickel-plated $4\frac{1}{2}$ -inch plain dividers, 5-inch ruling pen, 5-inch compasses, with fixed needle, pen and pencil points, $3\frac{1}{2}$ -inch bow-pen, metal protractor, and box of leads per set, \$3.30
- 1170A. Same as above with Circular Spring Bow No. 1158..... 3.45

WOODEN BLACKBOARD DIVIDERS



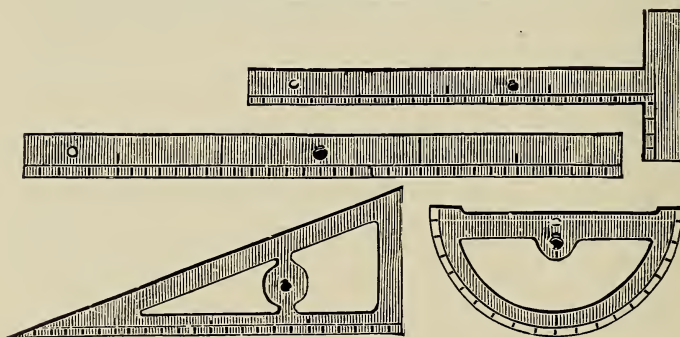
1190



1193

- 1190. Wooden Blackboard Dividers, 12 inches.....each, \$1.15
- 1191. Wooden Blackboard Dividers, 15 inches.....each, 1.45
- 1192. Wooden Blackboard Dividers, 18 inches.....each, 1.70
- 1193. Wooden Blackboard Dividers, with arc, 12 inches.....each, 1.70
- 1194. Wooden Blackboard Dividers, with arc, 15 inches.....each, 1.95
- 1195. Wooden Blackboard Dividers, with arc, 18 inches.....each, 2.50

BLACKBOARD SET



1198

- 1198. Blackboard Set, with Knobs, consisting of T Square, 24 inches;
 Straightedge, 36 inches; Protractor, 15½ inches; Triangle,
 30×60 degrees, 24 inches.....per set, \$5.00



TECHNICAL SUPPLY COMPANY **SCRANTON, PA.**

SEPARATE PARTS

“TEC,” “REX” AND GERMAN INSTRUMENTS

To accommodate our customers we keep in stock separate parts for our Mathematical Instruments, as listed below. While we can replace parts for compasses, we can replace neither the compasses (to be fitted to parts), nor the three-cornered steel legs of compasses. To repair points which are not detachable from the compasses (fixed points) is generally not advisable.

As our instruments are hand-made and the parts belonging to them are not interchangeable, they must be fitted to the instrument. The charge for such fitting is included in the following prices:

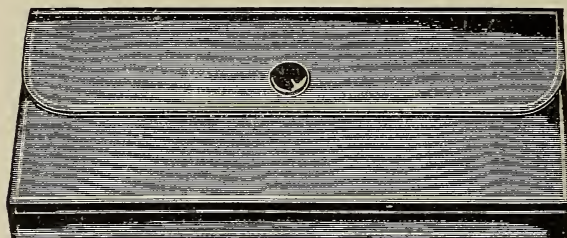
PARTS FOR “TEC” AND “REX” INSTRUMENTS

	Each
Pen Points, Pencil Points, Needle Points, for 3½-in. Compasses.....	\$1.25
Pen Points, Pencil Points, Needle Points, for 4½-, 5½-, 6-in. Compasses..	1.60
Pen Points, Pencil Points, Needle Points, for 6½-, 7-in. Compasses.....	1.75
Pen Points, Pencil Points, Needle Points, for Beam Compasses.....	1.00
Lengthening Bars for 3½-, 4½-, 5½-, 6-inch Compasses.....	1.35
Lengthening Bars for 6½-, 7-in. Compasses	1.50
Ebony Handles for Drawing Pens	.15
Ivory Handles for Drawing Pens.....	.20
Aluminum Handles for Drawing Pens.....	.25
Ivory Handles for Bow Instruments.....	.20
German Silver Handles for Bow Instruments.....	.25
Nut and Thread for Bow Instruments 460 to 482.....	.30
Thumbscrew with right and left thread for Nos. 485 to 487.....	.35
Screws and Nuts	each, 12 to .15
Shouldered Needles	each, 12 to .15

PARTS FOR OTHER INSTRUMENTS

	Each
Pen Points, Pencil Points, Needle Points, for 3½-inch Compasses.....	\$1.00
Pen Points, Pencil Points, Needle Points, for 5½-inch Compasses.....	1.25
Pen Points, Pencil Points, Needle Points, for Beam Compasses.....	.80
White Handles for Bow Instruments.....	.15
Aluminum Handles for Drawing Pens.....	.25
White Handles for Bow Instruments	.15
German Silver Handles for Bow Instruments.....	.20
Thread and Nut for Bow Instruments Nos. 750 to 761.....	.25
Thumbscrew with right and left thread for Bows.....	.30
Screws and Nuts	10 to .12
Shouldered Needles	.08

We have the best facilities for Repairing and Cleaning Drawing Instruments and Sharpening Ruling Pens



Closed

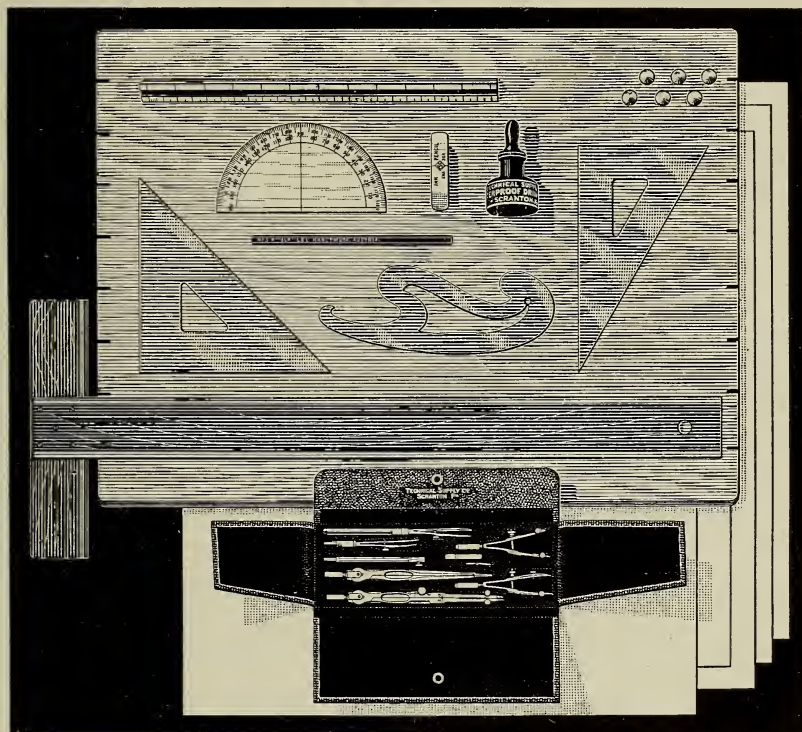
Size of Case	Lined with	
	Cotton Velvet	Silk Velvet
2½ × 6 inches	each, \$1.40	\$1.55
3 × 7½ inches	each, 1.70	2.05
3½ × 9 inches	each, 2.15	2.60
5 × 9 inches	each, 2.35	2.90
6 × 10 inches	each, 3.30	4.10
7 × 11 inches	each, 3.75	4.50
7 × 13 inches	each, 4.30	5.10
5 × 12½ inches	each, 3.60	4.40

EMPTY MOROCCO SLIDE-CATCH CASES

Size of Case	Lined with	
	Cotton Velvet	Silk Velvet
2½ × 6 inches	each, \$1.40	\$1.55
3 × 7½ inches	each, 1.60	1.90
3½ × 9 inches	each, 2.10	2.40
5 × 9½ inches	each, 2.40	2.70
6 × 10 inches	each, 2.90	3.80
7 × 11 inches	each, 3.65	4.10
7 × 13 inches	each, 3.90	4.75
5 × 12½ inches	each, 3.60	4.35

The above cases fitted with either Superfine or Fine Instruments.

Polished wooden cases with lock and key furnished to order. We recommend the morocco cases because they are more serviceable.

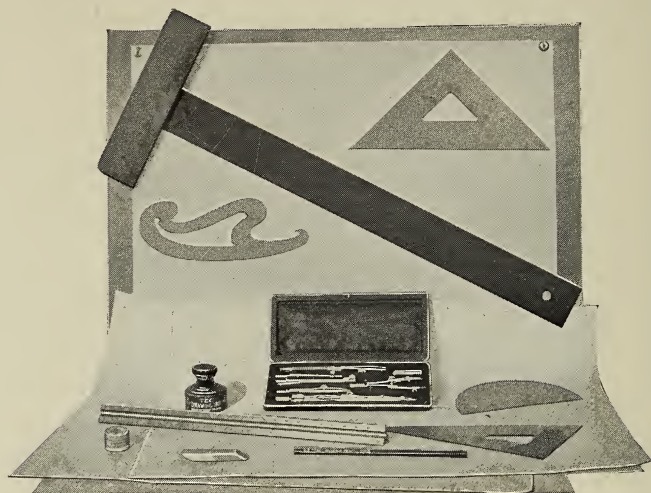


1200. Students' Drawing Outfit.....each, \$13.55

This outfit, designed for students of drawing, is complete in every respect and is composed of none but serviceable material, enabling the beginner to do excellent work without the investment of a large outlay for instruments. It is especially suitable for all classes of architectural work. It includes:

Morocco pocket case of fine German silver instruments, containing: 5½-inch compass, with pen, pencil, and needle points, and lengthening bar; 5-inch Spacing Dividers; 4½-inch Ruling Pen; Bow-Pen; Bow-pencil; Pencil Case; and adjusting key; Drawing Board, 16½ inches × 22½ inches, with expansion cleats and grooved back; 22½-inch Mahogany, Maple-Lined T Square;

6-inch Protractor; 7-inch 45° Transparent Celluloid Triangle; 8-inch 30° × 60° Transparent Celluloid Triangle; 12-inch Triangular Boxwood Scale; Transparent Celluloid Irregular Curve; Six Thumbtacks; Drawing Pencil; ¾-ounce bottle "Tesco" Waterproof Drawing Ink; Pencil and Ink Eraser; Six Sheets Drawing Paper.



1201

“ACADEMY” DRAWING OUTFIT

Designed to meet the popular demand for a complete outfit of both the instruments and material used in High Schools, Manual Training and Industrial Schools. This outfit combines dependability and serviceable drawing tools with low cost. The “Academy” Drawing Outfit is also recommended to Carpenters, Builders, and Contractors.

Contents :

- | | |
|--|--|
| <p>One Compass, 5½-inch, with pen point, loose needle point, pencil point, lengthening bar.</p> <p>One Bow-Pen, 3½ inches, with metal handle.</p> <p>One Ruling Pen, 5½ inches, with steel points and ebony handle.</p> <p>One adjusting key.</p> <p>One box of extra Leads for Compass. These instruments are all German silver, packed in a velvet-lined leather case.</p> <p>One Drawing Board, 16½" × 22½".</p> <p>One Pear-Wood T Square, 22½".</p> <p>One 6° Protractor.</p> | <p>One 7" 45° Transparent Celluloid Triangle.</p> <p>One 8" 60° Transparent Celluloid Triangle.</p> <p>One 12" Boxwood Triangular Scale, divided ⅜, ⅙, ⅛, ¼, ⅓, ½, ¾, 2½, and 3" to foot and one edge 16 to inch.</p> <p>One Transparent Celluloid, irregular curve.</p> <p>Thumb Tacks, ½ doz.</p> <p>One Drawing Pencil.</p> <p>One ¼-oz. bottle “Tesco” Waterproof Drawing Ink.</p> <p>One Ink and Pencil Eraser.</p> <p>One-quarter dozen Sheets I. C. S. Drawing Paper 15" × 20".</p> |
|--|--|

(Boxed for shipment) Outfit complete.....\$9.00



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



“Tesco” Waterproof Drawing Ink



“TESCO” Waterproof Drawing Ink is the result of a deliberate effort to not only raise the standard of drawing inks—but to produce an ink possessing every virtue the ideal drawing ink should have and minus those objections so often found in drawing inks.

The ingredients used in “Tesco” Drawing Ink are subjected to exhaustive purity tests before they are accepted for manufacturing purposes.

The carbon used is the finest that can be obtained. Its purity and freedom from dirt and dust guarantee a clean ink solution without lumps, grit or sediment.

“Tesco” Ink will flow smoothly and evenly from the pen point and leave a clear sharp line of uniform intensity free from cracks and bubbles. In these features “Tesco” is both new and distinctive.

“Tesco” Drawing Ink will not dry rapidly or “crust” on pen points. Does not flake off and is unequaled for obtaining sharp lines on blueprinting.

“Tesco” Waterproof Drawing Ink



THE “Tesco” bottle is a departure from the conventional drawing ink bottle. It has no machine made ridges to collect and hold dirt and is so made that the draftsman can get at the last drop of ink with ease.

The stopper top is heavy and no matter how placed or dropped the quill point will always point upward and cannot topple over, roll about and smear the paper. This little idea is a valuable one, for many drawings have been ruined by the turning over of stopper tops.

All things considered—“Tesco” Waterproof Drawing Ink has much to commend it, and its friends are assured that its present high quality will be maintained in spite of any condition that might arise.

“Tesco” Waterproof Drawing Ink is made in the following colors and shades:

Waterproof Black
Soluble or Non-
Waterproof Black
Carmine
Crimson

Scarlet
Brick Red
Orange
Yellow
Indigo

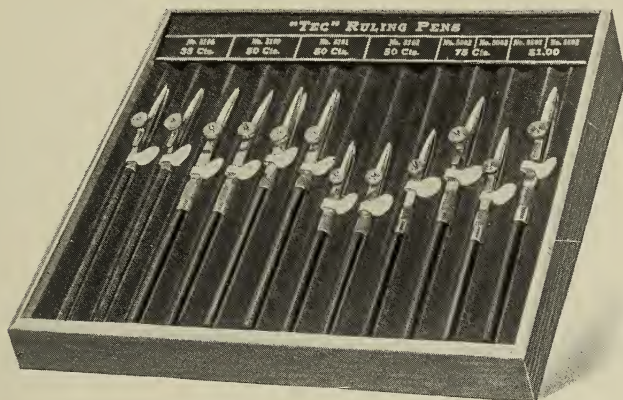
Blue
Violet
Green
Brown

Put up in $\frac{3}{4}$ ounce; 8 ounce; 16 ounce and 32 ounce bottles.

Made only in the

Technical Supply Company's
Laboratories, - - - - - Scranton, Pa.

"TEC" RULING PENS IN COUNTER DISPLAY CASE



1202

The widening field of use for ruling pens has prompted us to put up this attractive case and fill it with some of the best ruling pens in the popular "Tec" line.

The case takes up little room—can be used on any counter or show case and in the windows. If placed in a conspicuous place it is bound to attract trade, for nowadays the ruling pen appeals to more people than it did formerly.

It hasn't been long since the ruling pen was a draftsman's tool exclusively. Now we find it being used by bookkeepers, accountants, advertising men, office men, and others who have discovered that a clean cut, uniform, perfect line can be drawn in no other way.

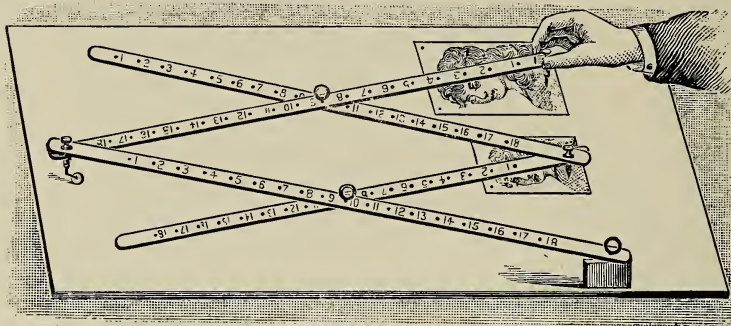
This case contains our numbers _____

_____. The case is supplied free with the first dozen ordered.

Dealers will find our special offer an interesting one. Price and details on application.

PANTOGRAPHS

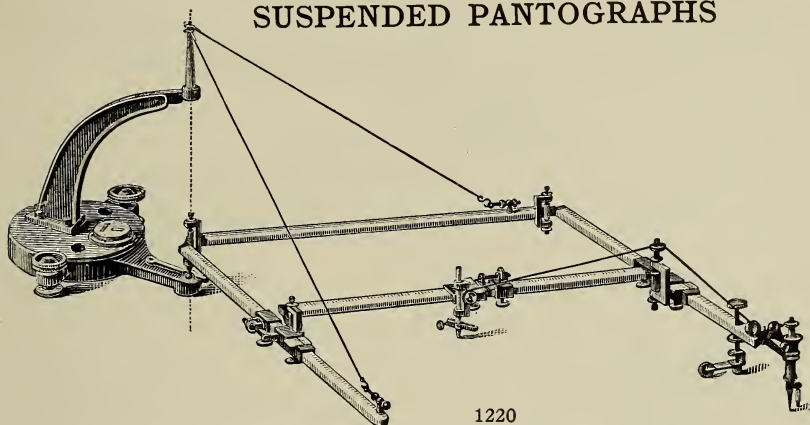
For Enlarging and Reducing and Copying Drawings



1213

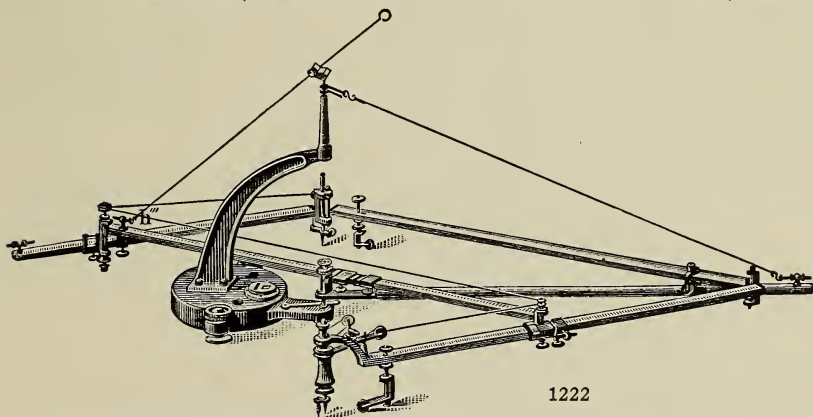
- 1210. Mounted, with nickel-plated elbow joint wheel, pencil holder and exchangeable point; finely polished, black figures, in neat box, 21 inches long each, \$2.40
- 1212. Brass mounted, with brass elbow joint wheel, pencil holder and movable point; polished, black figures, in box.....each, 1.90
- 1213. Brass mounted, same as No. 1212, in every respect, except that it is not polished, in box.....each, 1.50
- 1214. Brass mounted, same as No. 1213, except movable point instead of wheel each, 1.00
- 1215. A very useful Pantograph. It has very neat and substantial trimmings, clean-cut figures; a very neat and satisfactory instrument each, .50
- 1216. A smaller instrument. It is recommended by teachers as an excellent means of familiarizing children with form and proportion each, .25

SUSPENDED PANTOGRAPHS



1220

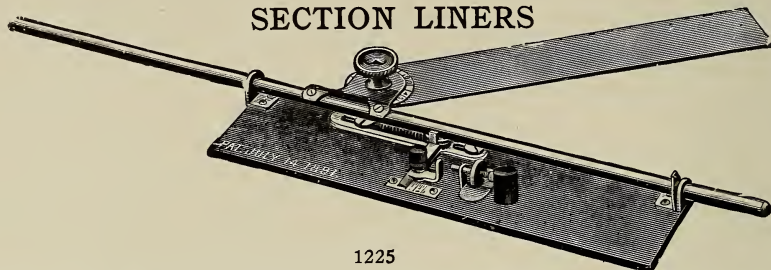
1218. Suspended Pantograph of square wooden bars, 28 inches long, in wooden case each, \$ 38.00
1220. Suspended Pantograph of square metal tubes, 33 inches long, divided into millimeters, enlarging or reducing all proportions from 1-20 to 1-5, in wooden case.....each, 125.00



1222

1222. Suspended Pantograph of square metal tubes, 37 $\frac{3}{4}$ inches long, divided into millimeters, with verniers reading to 1-10 millimeter, and with micrometer to adjust the wanted proportion, enlarging or reducing in all proportions from 1-20 to 1-1. All joints are pivot joints, and the standard is provided with two spirit levels to adjust the instrument to a horizontal position. The drawing point can be raised or lowered by a lever at the tracing point. No better instrument is made for the most accurate work. In wooden case, with extra spirit level....each, \$200.00

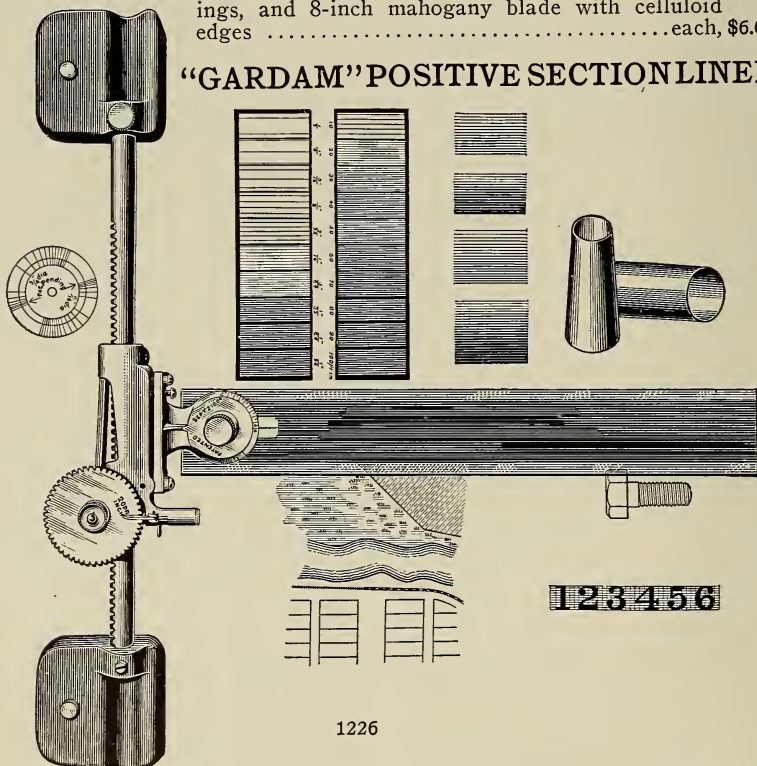
SECTION LINERS



1225

1224. Section Liner, of hardwood, with nickel-plated mountings, in case each, \$2.00
1225. Section Liner, of bronzed metal, with nickel-plated mountings, and 8-inch mahogany blade with celluloid edges each, \$6.00

“GARDAM” POSITIVE SECTIONLINER



1226

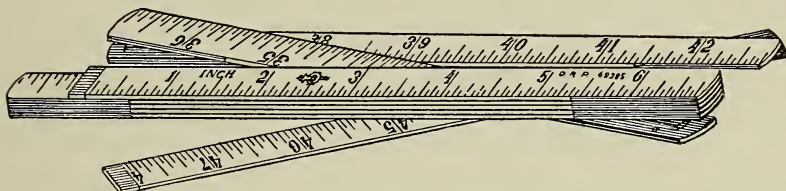
1226. Section Liner, blade 12 inches long.....each, \$6.50
1227. Section Liner, like No. 1226, blade 14 inches long.....each, 7.50
- Full description furnished with each instrument



FOLDING POCKET RULES

Boxwood, With Self-Locking Springs, Yellow Finish

$\frac{3}{8}$ inch wide



1301

These Pocket Rules are thin and light, and more convenient than the common joint rules. By a special preparation of the wood, shrinkage is entirely prevented. They are accurate, and have brass tips.

1300.	2 feet, four fold, inches both sides, $\frac{1}{16} \times \frac{1}{16}$, metal tip.....	dozen, \$2.40
1300A.	3 feet, six fold, inches both sides, $\frac{1}{16} \times \frac{1}{16}$, metal tip.....	dozen, 3.50
1301.	4 feet, eight fold, inches both sides.....	dozen, 4.50
1302.	4 feet, eight fold, inches one side, meters on other.....	dozen, 4.50
1303.	5 feet, ten fold, inches both sides, $\frac{1}{16} \times \frac{1}{16}$	dozen, 5.40
1304.	6 feet, twelve fold, inches both sides, $\frac{1}{16} \times \frac{1}{16}$	dozen, 6.45
1305.	8 feet, sixteen fold, inches both sides, $\frac{1}{16} \times \frac{1}{16}$	dozen, 9.00
1307.	1 meter, six fold, divided M.M. $\times$ M.M.....	dozen, 3.50
1308.	4 feet, eight fold, $\frac{1}{16} \times \frac{1}{16}$	dozen, 4.50
1309.	5 feet, ten fold, $\frac{1}{16} \times \frac{1}{16}$	dozen, 5.40

VEST POCKET SIZE

$\frac{3}{8}$ inch wide

Yellow Finish



1315-16

1315.	Pocket Rule, 2 feet, six fold, $\frac{1}{16} \times \frac{1}{16}$ inch.....	dozen, \$3.75
1316.	Pocket Rule, 3 feet, nine fold, $\frac{1}{16} \times \frac{1}{16}$ inch.....	dozen, 5.50
1317.	Pocket Rule, 4 feet, twelve fold, $\frac{1}{16} \times \frac{1}{16}$ inch.....	dozen, 7.50

VEST POCKET SIZE

$\frac{3}{8}$ inch wide

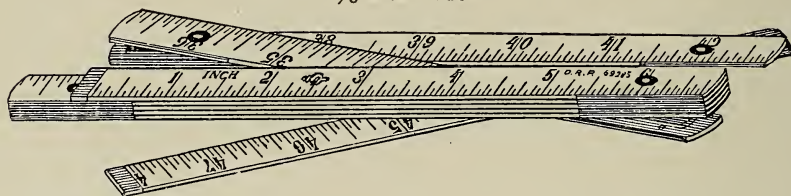
White Finish

1315W.	Pocket Rule, 2 feet, six fold, $\frac{1}{16} \times \frac{1}{16}$ inch.....	dozen, \$4.50
1316W.	Pocket Rule, 3 feet, nine fold, $\frac{1}{16} \times \frac{1}{16}$ inch.....	dozen, 6.50

FOLDING POCKET RULES—Continued

White Enameled With Brass Tips

$\frac{5}{8}$ inch wide



1322

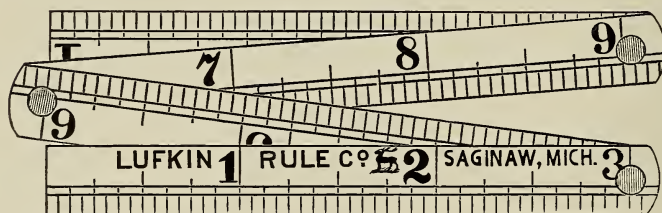
These folding Rules are covered with a white enameled coating, the black graduations on the white surface being more legible and distinct. These rules are not affected by heat or moisture and are easily cleansed.

- 1320. Pocket Rule, 2 feet, four fold, divided $\frac{1}{16} \times \frac{1}{16}$, metal tips...dozen, \$2.75
- 1321. Pocket Rule, 3 feet, six fold, divided $\frac{1}{16} \times \frac{1}{16}$, metal tips...dozen, 4.25
- 1322. Pocket Rule, 4 feet, eight fold, divided $\frac{1}{16} \times \frac{1}{16}$, metal tips...dozen, 5.50
- 1323. Pocket Rule, 5 feet, ten fold, divided $\frac{1}{16} \times \frac{1}{16}$, metal tips...dozen, 6.75
- 1324. Pocket Rule, 4 feet, eight fold, divided $\frac{1}{16} \times \frac{1}{10}$, metal tips...dozen, 5.50
- 1325. Pocket Rule, 5 feet, ten fold, divided $\frac{1}{16} \times \frac{1}{10}$, metal tips...dozen, 6.75
- 1334. Pocket Rule, 6 feet, twelve fold, divided $\frac{1}{16} \times \frac{1}{16}$, metal tips...dozen, 8.25
- 1335. Pocket Rule, 8 feet, sixteen fold, div. $\frac{1}{16} \times \frac{1}{16}$, metal tips...dozen, 11.00
- 1336. Pocket Rule, 4 feet, eight fold, (metric) divided $\frac{1}{16} \times \text{M.M.}$...dozen, 5.50

FOLDING STEEL POCKET RULE

Bends to a 3-Inch Circle. Vest-Pocket Size

For Surveyors

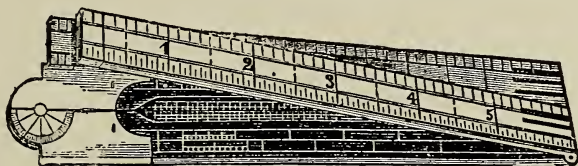


1340

- 1340. 1 foot, four fold, inches one side, 10ths on other.....each, \$.40
- 1341. 2 feet, eight fold, inches one side, 10ths on other.....each, .55
- 1342. 3 feet, twelve fold, inches one side, 10ths on other.....each, .80

Each of above Steel Rules comes in neat leather pocket case.

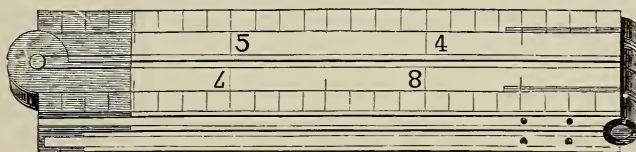
SCALE RULES



1350

1350. Ivory Rule, 2 feet, four fold; German-silver mounted, divided $\frac{1}{10}$, $\frac{1}{12}$, $\frac{1}{16}$ inch; outside edge foot in 100ths. The inside degrees are beveled and divided $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$ inches to the foot. The main joint is graduated to 5 degrees, for setting off angles each, \$7.80
1351. Boxwood Joint Rule, 2 feet, four fold; German-silver mounted, divided like No. 1350.....each, 2.10
1352. Boxwood Joint Rule, 2 feet, four fold; brass mounted, with scales on beveled edges of $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 inch to the foot. The main joint is graduated to 45, 60, and 90 degrees.....each, 1.40

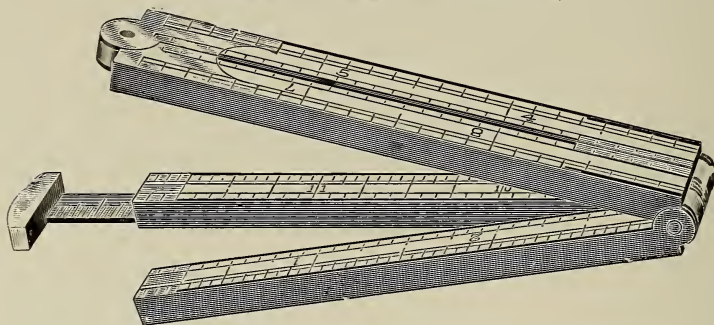
POCKET RULES



1355

- | | Each |
|--|--------|
| 1353. Pocket Rule, Boxwood, 1 foot, four fold, brass mountings..... | \$.15 |
| 1354. Pocket Rule, Boxwood, 2 feet, four fold, brass mountings..... | .30 |
| 1355. Pocket Rule, Boxwood, 1 foot, four fold, brass-bound edges..... | .40 |
| 1356. Pocket Rule, Boxwood, 2 feet, four fold, brass-bound edges..... | .60 |
| 1357. Pocket Rule, Ivory, 1 foot, four fold, German-silver mountings.... | 1.00 |
| 1358. Pocket Rule, Ivory, 2 feet, four fold, German-silver mountings.... | 3.75 |
| 1359. Pocket Rule, Ivory, 1 foot, four fold, German-silver bound edges.. | 1.75 |
| 1359A. Pocket Rule, Ivory, 2 feet, four fold, German-silver bound edges. | 5.00 |

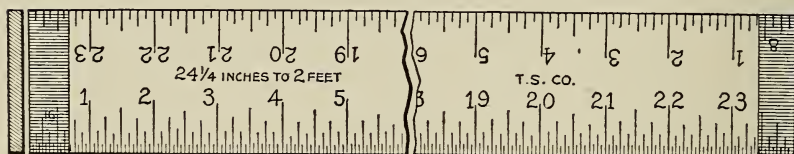
POCKET RULES—Continued



1360A

- 1360A. Pocket Rule, Boxwood, with Caliper, 1 foot, four fold, brass-bound edges each, \$.60
- 1360B. Pocket Rule, Ivory, with Caliper, 1 foot, four fold, German-silver bound edges each, 3.50

SHRINKAGE RULES FOR SINGLE AND DOUBLE SHRINKAGE

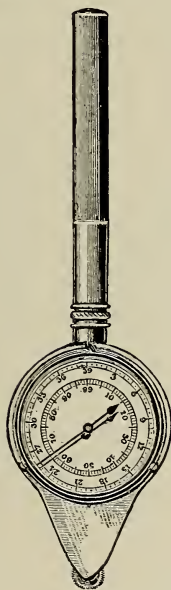


1361

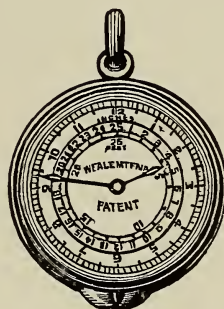
These rules are of hardwood, brass tipped, about $1\frac{1}{2}$ inches wide by $\frac{1}{8}$ inch thick and divided to $\frac{1}{8}$, $\frac{1}{10}$, $\frac{1}{12}$, and $\frac{1}{16}$ inch.

1361. Shrinkage Rule, $24\frac{1}{10}$ equal 24 inches.....each, \$1.50
- 1361A. Shrinkage Rule, $24\frac{1}{4}$ equal to 24 inches.....each, 1.50
1362. Shrinkage Rule, $24\frac{3}{8}$ equal 24 inches.....each, 1.50
1363. Shrinkage Rule, $24\frac{1}{2}$ equal 24 inches.....each, 1.50
1364. Shrinkage Rule, $25\frac{1}{2}$ equal 24 inches.....each, 1.50
1365. Shrinkage Rule, $25\frac{1}{2}$ equal 24 inches.....each, 1.50
1366. Shrinkage Rule, 26 equal 24 inches.....each, 1.50
1367. Shrinkage Rule, $26\frac{3}{4}$ equal 24 inches.....each, 1.50

MAP MEASURES



1370



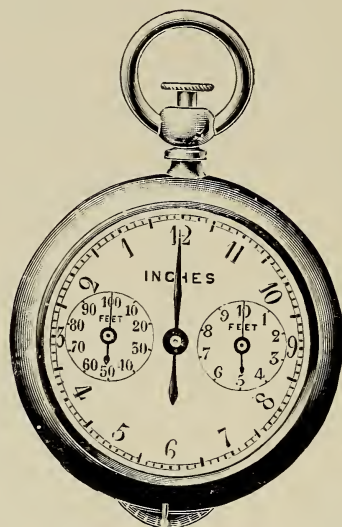
1372

1370. Universal Map Measure, ivory handle, measuring inches to miles and centimeters to kilometers.....each, \$3.20

1372. Map Measure, 12 inches in eighths to 25 feet.....each, 2.20

1373. Registering Rotameter in $\frac{1}{16}$ inch and feet.

“THE NEW MODEL POCKET ROTAMETER”



1375

Registering 100 Feet, With Instantaneous Set Back to Zero

The great success of the Rotameter in determining beforehand the time required for machining a piece of work in a lathe or boring mill by ascertaining the number of revolutions per minute and also the feed per revolution has led to a constant demand, by users of high-speed steel, for an instrument of much greater range. To meet this demand, we offer the New Model Rotameter. The outer dial is divided by eighths of an inch to 12 inches, the small dial on the right to 10 feet by single feet, and the dial on the left to 100 feet by each 10 feet. All three hands are instantly set back simultaneously to zero by a simple pressure on the crown. Handsomely nickel plated.

1375. Rotameter registering 100 feet each, \$ 9.00

1376. Rotameter registering 1,000 feet each, 12.00

SLIDE RULES

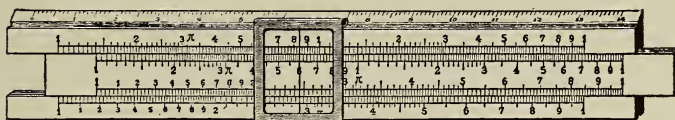
ENGINEERS' SLIDE RULE (MANNHEIM)



1382

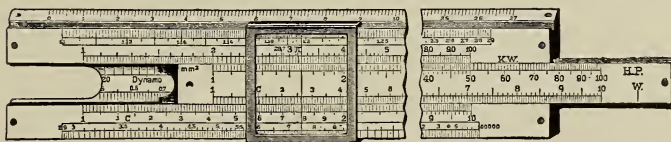
The Slide Rule has become an indispensable aid not only to the engineer and scientist, but also to the manufacturer, the merchant, and others whose occupation involves calculations.

1382. Improved Adjustable Slide Rule (Mannheim), 10 inches, divided on white facing, aluminum-framed glass indicator, including cloth (Treatise) on Slide Rule, cloth bound.....each, \$4.50



1383

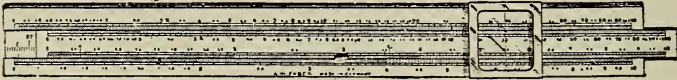
1383. Improved Engineers' Slide Rule (Mannheim), 10 inches, divided on white facings, aluminum-framed glass indicator. Directions with rule each, 5.00



1387

1387. Reitz System Engineers' Slide Rule, 10 inches, divided on white facing with aluminum-frame glass indicator each, 4.50

SLIDE RULES—(Continued)



1388

1388. A. W. Faber's Calculating Rule, made of boxwood, traversing slide of nickeled metal, in box, with book of instructions....each, \$3.50

1390. Same as No. 1388, but with celluloid face.....each, 3.75



1392

1392. A. W. Faber's Improved Calculating Rule, celluloid face, nickeled-metal traversing slide, with book of instructions.....each, \$4.25

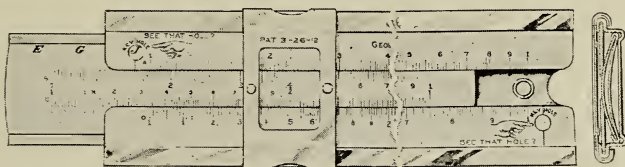
The Improved Calculating Rule has a boxwood adjuster inserted into the body of the rule, lateral to the side, which acts upon the side like a spring. This insures to its movement an even and adequate friction, safeguarding against it becoming excessively tight or loose under changes of temperature or from atmospheric humidity.

1393. Improved Engineers' Slide Rule (Mannheim), 5 inches, divided on white celluloid with magnifying indicator, including treatise on slide rule, cloth bound..... 4.50



RICHARDSON SLIDE RULE

(Direct Reading)



For Engineers, Electricians, Draftsmen, Estimators, Business Men

To read this rule a knowledge of logarithms is unnecessary, and it combines in one simple instrument most of the information the practical man needs for ordinary problems.

No wood enters the construction of the Richardson rule. Consequently it is not subject to the expansion or contraction following atmospheric changes. This rule is made of aluminum. The scales are polished celluloid, printed in two colors from engine-divided engraved copper plates. The rule measures $11 \times 1\frac{3}{4} \times \frac{1}{4}$ ".

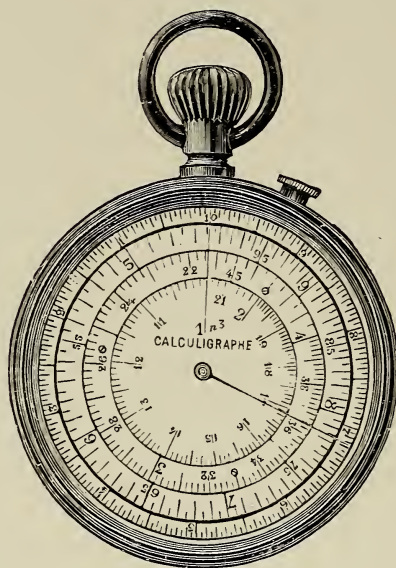
A complete set of instructions accompanies each rule—and emphasis is placed upon problems like the following:

How to square a number. How to extract the square root. How to cube a number. How to extract the cube root. How to find the decimal equivalent of any vulgar fraction. Calculates interest and percentage. How to find the vulgar fraction of an equivalent decimal. How to calculate interest. How to work proportion. How to solve multiplication. How to work division. How to work the combination of multiplication and division.

ALSO HOW TO FIND

The horsepower of an engine. The weight to be placed upon a safety valve. The size of a motor to run a pump. The size of change gears for screw-cutting lathes. The percentage a customer's recording watt-meter is either "slow" or "fast." How to find area-diameter or circumference. The horsepower of a waterfall. The size of a duct for ventilation. The horsepower of double and single belting. The diameter and speed of pulleys. And many others. Slide Rule, with Book of Instructions giving complete information for solving many problems and making all calculations, \$2.50.

BOUCHER CALCULATOR



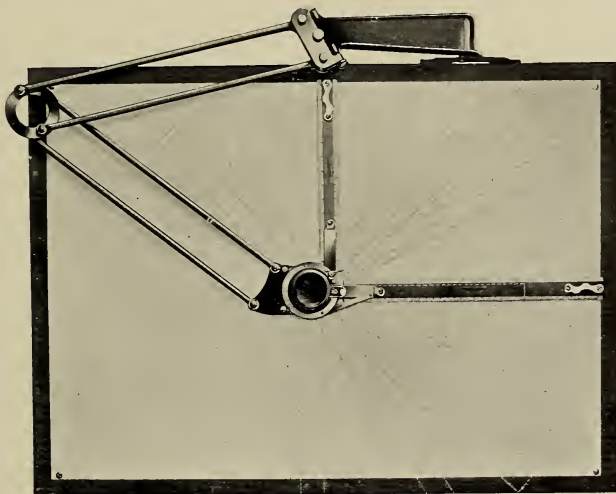
1398

The Boucher Calculator is made similar to an ordinary stem-winding watch, with glass-covered dials back and front. Ratios are set off by means of pointers which, as well as the movable dial, are turned by means of the "stem-winder" key. It is $2\frac{1}{16}$ inches in diameter by $\frac{9}{16}$ inch thick, and does not take up more room in the pocket than an ordinary watch.

1398. Boucher Calculator with movable dial.....each, \$ 8.50

1398B. Boucher Calculator, fixed dial.....each, 14.00

UNIVERSAL DRAFTING MACHINE



1404

The Universal Drafting Machine consists of two parallelograms, a protractor, and a square having graduated ruling edges.

The two parallelograms joined together constitute an arm which, anchored to the board, gives the protractor and square a parallel motion about the drawing. This form of parallel motion permits either zero on the ruling edges to be instantly placed at any point on the drawing, by a single direct movement.

Starting from zero, a line is drawn along the graduated ruling edge, just the exact length required. There is no attention of any kind given to alinement—there is no changing from ruling edge to a scaling edge—there is no overrunning end to be erased and patched up.

You simply move the zero to position by a single direct movement with one hand, and with the other draw the line its exact length. The square is used for the reason that as soon as a line is drawn, another line at right angles to it is usually required. Considerable time and attention is thus saved, particularly in angular work. The blades of the square are interchangeable for all graduations.



UNIVERSAL DRAFTING MACHINE—Continued

Protractor permits square to be set at any angle. It then has the same parallel motion about the board as when set at zero. No matter what the angle, simply set protractor, move the zero to position, and draw line its exact length.

Automatic stops make it unnecessary to read or clamp protractor at frequently used angles.

The protractor is the controlling center of the Drafting Machine. The handle is held in the left hand, and from this position all of the motions of the machine are readily controlled. The right hand is free for drawing lines.

Universal Drafting Machines are made for use on all kinds of drafting, on all kinds of boards, under all kinds of conditions.

1401. Universal Drafting Machine.—Hardened joint solid rod, Mid-Anchor type.

18" for drawings 20" × 30"

24" for drawings 30" × 42"

21" for drawings 24" × 36"

28" for drawings 36" × 50"

Complete with four white edge scales; two 6-inch and two 12-inch,
also one 24-inch ebony-lined straightedge.....\$35.50

1402. Universal Drafting Machine.—Ball-bearing tubular rod, Mid-Anchor type.

18" for drawings 20" × 30"

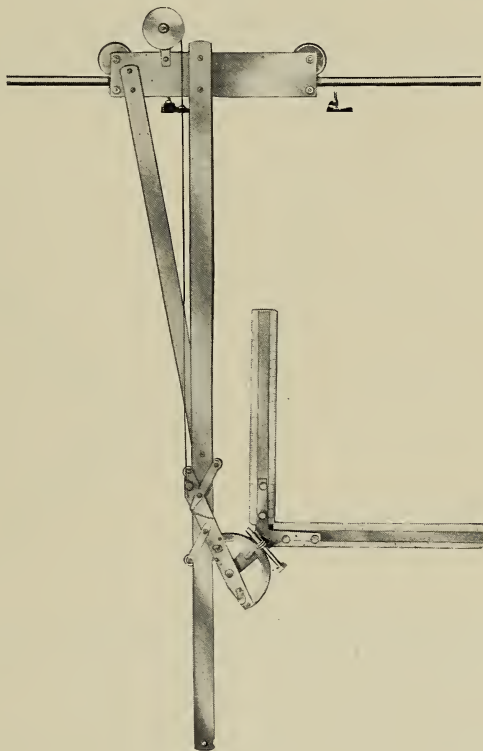
24" for drawings 30" × 42"

21" for drawings 24" × 36"

28" for drawings 36" × 50"

Complete with four white edge scales; two 6-inch and two 12-inch,
also one 24-inch ebony-lined straightedge.....\$48.00

NOYES VERTICAL T SQUARE



1410

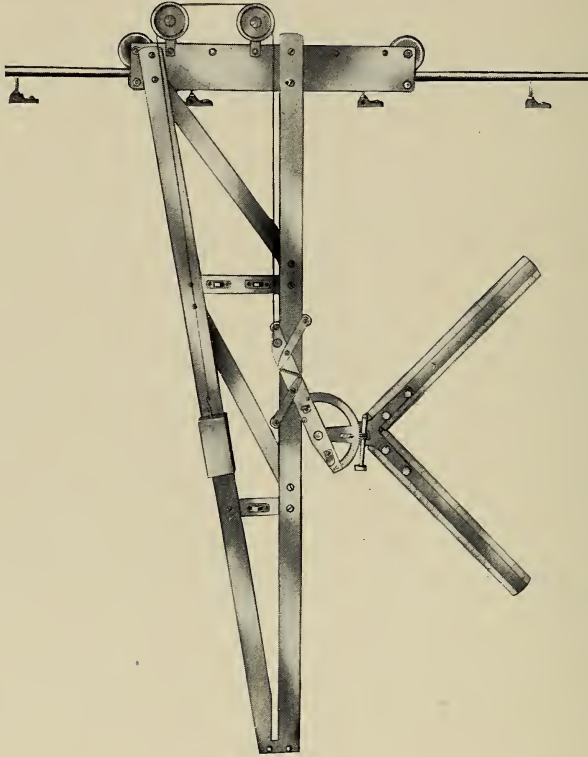
This instrument comprises a Vertical T Square, combined with a vertically slidable protractor carrying interchangeable scales, and guided by a steel track.

The smaller sizes for drawings 24"×36", 30"×42", and 36"×48" can be used equally well on either Vertically inclined or Horizontal Boards, while the larger sizes are intended for use only on Vertical Boards and are especially adapted for making large assembled drawings, layouts, etc. These large machines can be furnished for almost any size drawing.

The "Noyes" T Square is easy to operate and has proven a positive time saver to the draftsman.

By means of a graduated Protractor angles which are multiples of 3 degrees can be instantly obtained, while with the aid of a vernier an angle of 5 minutes is quickly secured.

NOYES VERTICAL T SQUARE—(Continued)



1415

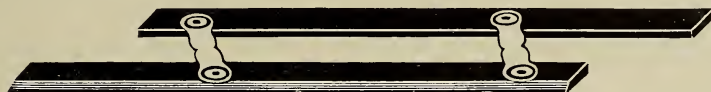
In the manufacture of these machines only the best materials and workmanship are used and each machine is thoroughly tested and guaranteed accurate and satisfactory.

- | | |
|---|---------|
| 1410. Machine for drawings up to 24" × 36"..... | \$22.50 |
| 1412. Machine for drawings up to 30" × 42"..... | 25.00 |
| 1414. Machine for drawings up to 36" × 48"..... | 25.00 |

Special Sizes:

- | | |
|--|---------|
| 1415. Machine for drawings 42" wide and length of board, complete
with exception of track | \$30.00 |
| 1415A. Track for 1415 Machine, per foot..... | .50 |
- Track should be 1 foot longer than table.

PARALLEL RULES



1480

- 1480. Ebony Parallel Rules, brass bars, 6 inches.....each, \$.40
- 1481. Ebony Parallel Rules, brass bars, 9 inches.....each, .70
- 1482. Ebony Parallel Rules, brass bars, 12 inches.....each, .90
- 1483. Ebony Parallel Rules, brass bars, 15 inches.....each, 1.16
- 1484. Ebony Parallel Rules, brass bars, 18 inches.....each, 1.50
- 1485. Ebony Parallel Rules, brass bars, 24 inches.....each, 2.00
- 1480A. Amber Parallel Rules, nickel-plated bars, 6 inches.....each, 1.40
- 1481A. Amber Parallel Rules, nickel-plated bars, 9 inches.....each, 1.80
- 1482A. Amber Parallel Rules, nickel-plated bars, 12 inches.....each, 2.40
- 1483A. Amber Parallel Rules, nickel-plated bars, 15 inches.....each, 3.00
- 1484A. Amber Parallel Rules, nickel-plated bars, 18 inches.....each, 3.75
- 1485A. Amber Parallel Rules, nickel-plated bars, 24 inches.....each, 4.90

Rubber in place of amber furnished, if desired, for 60 cents less.

ROLLING PARALLEL RULER



1490

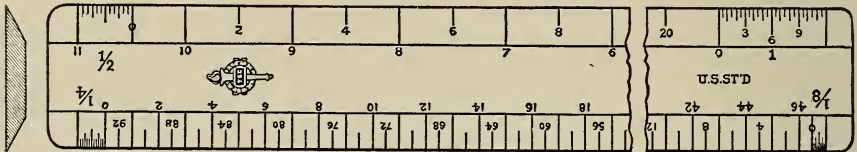
- 1490. Ebony Rolling Parallel Ruler, fine finish, 9 inches.....each, \$ 2.75
- 1491. Ebony Rolling Parallel Ruler, fine finish, 12 inches.....each, 3.25
- 1492. Ebony Rolling Parallel Ruler, fine finish, 15 inches.....each, 4.00
- 1493. Ebony Rolling Parallel Ruler, fine finish, 18 inches.....each, 5.00
- 1494. Solid Brass Rolling Parallel Ruler, fine finish, 9 inches....each, 7.25
- 1495. Solid Brass Rolling Parallel Ruler, fine finish, 12 inches....each, 8.50
- 1496. Solid Brass Rolling Parallel Ruler, fine finish, 15 inches....each, 10.00
- 1497. Solid Brass Rolling Parallel Ruler, fine finish, 18 inches....each, 12.00
- 1498. Solid Brass Rolling Parallel Ruler, fine finish, 24 inches....each, 18.00
- 1498B. Solid German-Silver Rolling Parallel Ruler, 12 inches....each, 10.00
- 1498C. Solid German-Silver Rolling Parallel Ruler, 24 inches....each, 20.00



FLAT BOXWOOD SCALES

U. S. Standard, Machine Divided

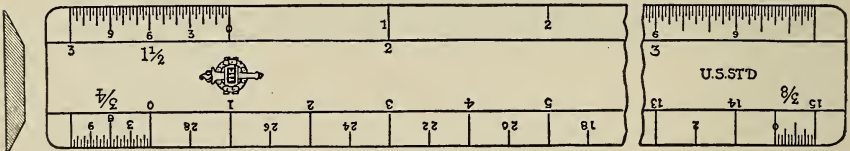
The "Tec" Scales are engine divided all U. S. Standard measurements. The graduations are fine and clean cut. We list two kinds of Scales, the plain boxwood and the boxwood with white celluloid-lined edges. These latter scales, while more expensive, meet with greater favor since they tire the eyes less than metal, ivory, or plain scales, the numbers and lines being distinct, black on a white surface.



1501

Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, and 1 inch to the foot

- | | |
|---|--------------|
| 1500. Flat Boxwood Scale, 6 inches..... | each, \$.50 |
| 1501. Flat Boxwood Scale, 12 inches..... | each, .75 |
| 1502. Flat Boxwood Scale, 12½ inches..... | each, 1.00 |
| 1503. Flat Boxwood Scale, 18 inches..... | each, 1.50 |
| 1504. Flat Boxwood Scale, 24 inches..... | each, 2.00 |

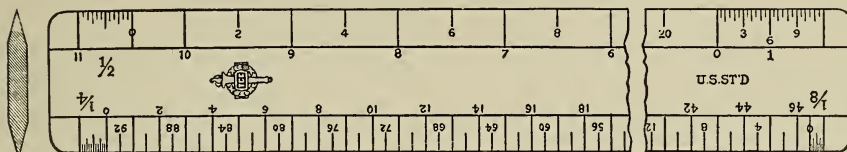


1508

Divided $\frac{3}{8}$, $\frac{1}{2}$, $1\frac{1}{2}$, and 3 inches to the foot

- | | |
|---|--------------|
| 1506. Flat Boxwood Scale, 6 inches | each, \$.50 |
| 1508. Flat Boxwood Scale, 12 inches | each, .75 |
| 1510. Flat Boxwood Scale, 18 inches | each, 1.50 |
| 1512. Flat Boxwood Scale, 24 inches | each, 2.00 |

FLAT BOXWOOD SCALES—Continued



1516

Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $1 \times \frac{3}{8}$, $\frac{3}{4}$, $1\frac{1}{2}$, 3 inches to the foot

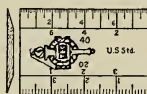
- | | Each |
|---|-------|
| 1514. Flat Boxwood Scale, 6 inches, both sides beveled and divided.... | \$.90 |
| 1516. Flat Boxwood Scale, 12 inches, both sides beveled and divided.... | 1.20 |
| 1518. Flat Boxwood Scale, 18 inches, both sides beveled and divided.... | 2.25 |
| 1520. Flat Boxwood Scale, 24 inches, both sides beveled and divided.... | 3.20 |

CHAIN SCALES



1526

- | | |
|--|-------|
| 1522. Flat Boxwood Chain Scale, 6 in., 10×50 parts to the inch..each, | \$.45 |
| 1523. Flat Boxwood Chain Scale, 6 in., 20×40 parts to the inch..each, | .45 |
| 1524. Flat Boxwood Chain Scale, 6 in., 30×60 parts to the inch..each, | .45 |
| 1525. Flat Boxwood Chain Scale, 6 in., 80×100 parts to the inch..each, | .70 |
| 1526. Flat Boxwood Chain Scale, 12 in., 10×50 parts to the inch..each, | .70 |
| 1527. Flat Boxwood Chain Scale, 12 in., 20×40 parts to the inch..each, | .70 |
| 1528. Flat Boxwood Chain Scale, 12 in., 30×60 parts to the inch..each, | .70 |
| 1529. Flat Boxwood Chain Scale, 12 in., 80×100 parts to the inch..each, | 1.10 |



1530

- | | |
|--|-------|
| 1530. Flat Boxwood Offset Scale, 2 in., 10×50 parts to the inch..each, | \$.40 |
| 1531. Flat Boxwood Offset Scale, 2 in., 20×40 parts to the inch..each, | .40 |
| 1532. Flat Boxwood Offset Scale, 2 in., 30×60 parts to the inch..each, | .40 |
| 1533. Flat Boxwood Offset Scale, 2 in., 80×100 parts to the inch..each, | .65 |

FLAT BOXWOOD METRIC SCALES

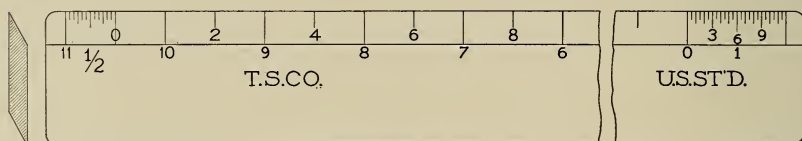
- | | |
|---|-------|
| 1534. Flat Boxwood Scale, 10 centimeters long.....each, | \$.50 |
| 1535. Flat Boxwood Scale, 20 centimeters long.....each, | .65 |
| 1536. Flat Boxwood Scale, 30 centimeters long.....each, | .75 |
| 1538. Flat Boxwood Scale, 50 centimeters long.....each, | 1.50 |



FLAT BOXWOOD SCALES

OPPOSITE BEVEL BOXWOOD SCALES

These Scales are an improvement over the regular flat shape, as they may be picked up more readily, and present but one graduated bevel to the eye when in use.



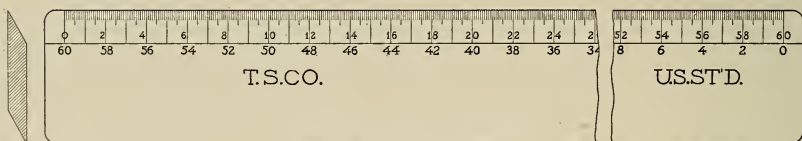
1540

Divided $\frac{1}{8}$, $\frac{1}{4} \times \frac{1}{2}$, 1 inch to the foot

- 1540. Opposite Bevel Boxwood Scale, 6 inches.....each, \$.45
- 1541. Opposite Bevel Boxwood Scale, 12 inches.....each, .70
- 1542. Opposite Bevel Boxwood Scale, 18 inches.....each, 1.30

Divided $\frac{3}{8}$, $\frac{1}{2} \times 1\frac{1}{2}$, 3 inches to the foot

- 1545. Opposite Bevel Boxwood Scale, 6 inches.....each, \$.45
- 1546. Opposite Bevel Boxwood Scale, 12 inches.....each, .70
- 1547. Opposite Bevel Boxwood Chain Scale, 18 inches.....each, 1.30



1548

Chain Scale, divided 10×50 parts to the inch

- 1548. Opposite Bevel Boxwood Chain Scale, 6 inches.....each, \$.45
- 1550. Opposite Bevel Boxwood Chain Scale, 12 inches.....each, .70

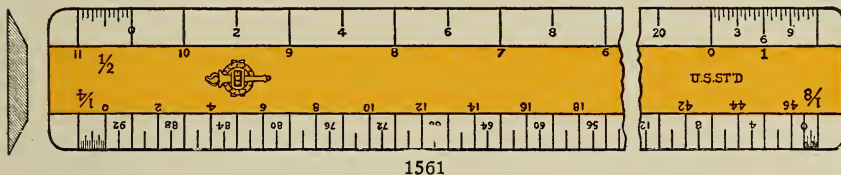
MISCELLANEOUS GRADUATIONS

- 1551. Flat Boxwood Scale, 12 inches, divided $\frac{1}{2}$ and 1 inch to the foot each, \$.70
- 1552. Flat Boxwood Scale, 12 inches, divided $\frac{1}{4}$ and $\frac{1}{8}$ inch to the foot each, .70
- 1553. Flat Boxwood Scale, 12 inches, divided $\frac{1}{4}$, $\frac{1}{8}$, and $\frac{1}{16}$ inch to the foot each, .70
- 1554. Flat Boxwood Scale, 12 inches, divided 10×16 parts to the inch each, .70

FLAT WHITE-EDGE SCALES

U. S. Standard, Machine Divided

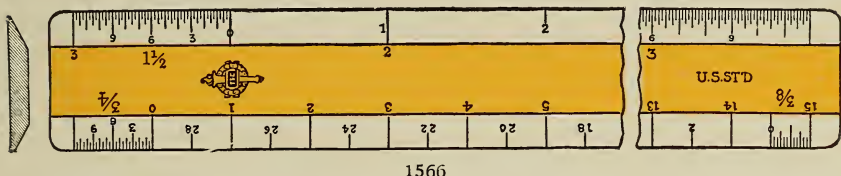
These Scales are made of selected and thoroughly seasoned boxwood, lined on edges with a white material similar to ivory, which is unshrinkable and will not change color. The White-Edge Scales have attained a great deal of popularity from the fact that the graduations thereon are very distinct and wear better and are more legible than on Ivory Scales.



1561

Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, and 1 inch to the foot

- | | |
|---|--------------|
| 1560. Flat White-Edge Scale, 6 inches..... | each, \$.75 |
| 1561. Flat White-Edge Scale, 12 inches..... | each, 1.25 |
| 1562. Flat White-Edge Scale, 12 $\frac{1}{2}$ inches..... | each, 1.35 |
| 1563. Flat White-Edge Scale, 18 inches..... | each, 2.20 |
| 1564. Flat White-Edge Scale, 24 inches..... | each, 2.80 |



1566

Divided $\frac{3}{8}$, $\frac{1}{2}$, $1\frac{1}{2}$, and 3 inches to the foot

- | | |
|---|--------------|
| 1565. Flat White-Edge Scale, 6 inches..... | each, \$.75 |
| 1566. Flat White-Edge Scale, 12 inches..... | each, 1.25 |
| 1567. Flat White-Edge Scale, 18 inches..... | each, 2.20 |
| 1568. Flat White-Edge Scale, 24 inches..... | each, 2.60 |



1569

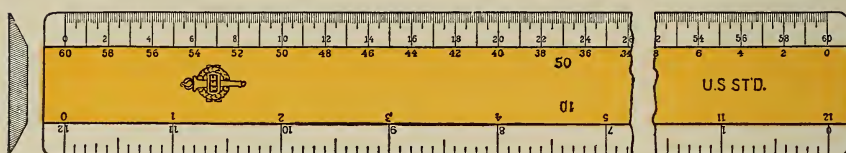
Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $1 \times \frac{3}{8}$, $\frac{3}{4}$, $1\frac{1}{2}$, 3 inches to the foot

- | | |
|---|--------------|
| 1569. Flat White-Edge Scale, 6 inches, both sides beveled and divided, in leather sheath, less than 1 inch wide, very convenient for the pocket | each, \$1.35 |
| 1570. Flat White-Edge Scale, 12 in., both sides beveled and div.... | each, 2.00 |
| 1571. Flat White-Edge Scale, 18 in., both sides beveled and div.... | each, 3.40 |
| 1572. Flat White-Edge Scale, 24 in., both sides beveled and div.... | each, 4.60 |



FLAT WHITE-EDGE SCALES—Continued

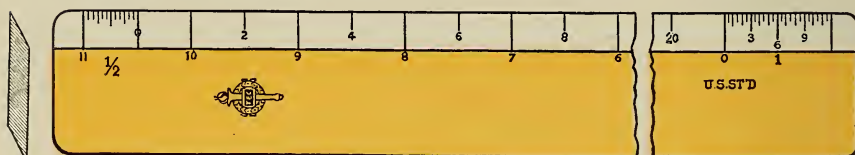
U. S. Standard, Machine Divided



1583

- 1580. Flat White-Edge Chain Scale, 6 in., 10×50 parts to inch.....\$.75
- 1581. Flat White-Edge Chain Scale, 6 in., 20×40 parts to inch..... .75
- 1582. Flat White-Edge Chain Scale, 6 in., 30×60 parts to inch..... .75
- 1583. Flat White-Edge Chain Scale, 6 in., 80×100 parts to inch..... .95
- 1584. Flat White-Edge Chain Scale, 12 in., 10×50 parts to inch..... 1.25
- 1585. Flat White-Edge Chain Scale, 12 in., 20×40 parts to inch..... 1.25
- 1586. Flat White-Edge Chain Scale, 12 in., 30×60 parts to inch.....1.25
- 1587. Flat White-Edge Chain Scale, 12 in., 80×100 parts to inch..... 1.50
- 1588. Flat White-Edge Chain Scale, 12 in., 100×500 parts to foot..... 1.25
- 1589. Flat White-Edge Chain Scale, 12 in., 200×400 parts to foot..... 1.25
- 1590. Flat White-Edge Chain Scale, 12 in., 300×600 parts to foot..... 1.25
- 1591. Flat White-Edge Chain Scale, 12 in., 800×1000 parts to foot..... 1.75

OPPOSITE BEVEL WHITE-EDGE SCALES



1593

Divided $\frac{1}{8}$, $\frac{1}{4} \times \frac{1}{2}$, 1 inch to the foot

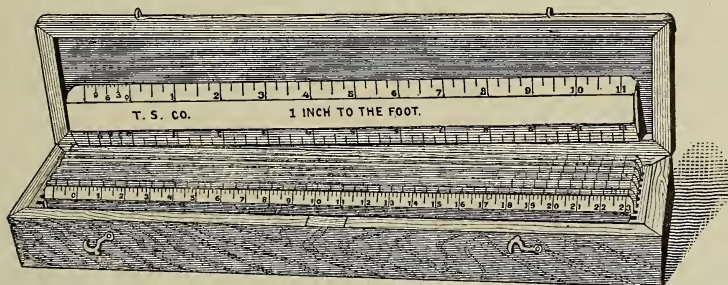
- 1592. White-Edge Scale, Opposite Bevel, 6 inches.....each, \$.75
- 1593. White-Edge Scale, Opposite Bevel, 12 inches.....each, 1.25

Divided $\frac{3}{8}$, $\frac{3}{4} \times 1\frac{1}{2}$, 3 inches to the foot

- 1596. White-Edge Scale, Opposite Bevel, 6 inches.....each, \$.75
- 1597. White-Edge Scale, Opposite Bevel, 12 inches.....each, 1.25

If Special Scales are desired, send sketch showing divisions and numbering, and figure cost at double the list price of similar regular Scales.

FLAT BOXWOOD SCALES IN SETS



1601

Nos. 1600 to 1602 have the same scale on both edges; one edge is divided and figured to read from left to right, and the other from right to left

1600. Set of four Boxwood Scales, 12 inches Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, 1 inch to the foot per set, \$ 4.30
1601. Set of eight Boxwood Scales, 12 inches. Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 3 inches to the foot.....per set, 7.50
1602. Set of twelve Boxwood Scales, 12 inches. Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3, 4, 6, and 12 inches to the foot.....per set, 11.00

Nos. 1606 and 1608 have a different scale on each edge, each of which is figured to read both ways

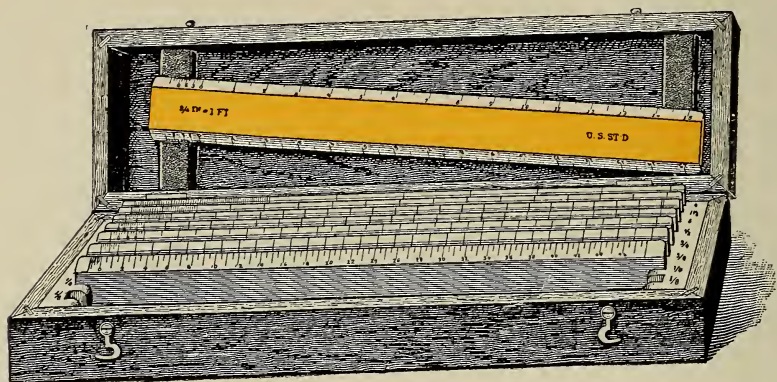
1606. Set of four Boxwood Scales, 12 inches. Divided 10 and 50, 20 and 40, 30 and 60, 80 and 100 parts to the inch.....per set, \$4.80
1608. Set of eight Boxwood Scales, four 12-inch and four 2-inch. Offset to match. Divided 10 and 50, 20 and 40, 30 and 60, 80 and 100 parts to the inch..... 7.30

Nos. 1610 and 1612 have the same scale on both edges, each edge is figured to read both ways

1610. Set of six Boxwood Scales, 12 inches. Divided 10, 20, 30, 40, 50, 60 parts to the inch.....per set, \$6.00
1612. Set of eight Boxwood Scales, 12 inches. Divided 10, 20, 30, 40, 50, 60, 80, 100 parts to the inch.....per set, 9.00



FLAT WHITE-EDGE SCALES IN SETS



1621

Nos. 1620-1622 have the same scale on both edges; one edge is divided and figured to read from left to right, and the other from right to left

1620. Set of four White-Edge Scales 12-inch. Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, 1 inch to the foot per set, \$ 6.50
1621. Set of eight White-Edge Scales, 12-inch. Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 3 inches to the foot.....per set, 12.00
1622. Set of twelve White-Edge Scales, 12-inch. Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3, 4, 6, and 12 inches to the foot.....per set, 17.20

No. 1625 has a different scale on each edge, each of which is figured to read both ways

1625. Set of four White-Edge Scales, 12-inch. Divided, 10 and 50, 20 and 40, 30 and 60, 80 and 100 parts to the inch.....per set, \$6.75

Nos. 1626 and 1627 have the same scale on both edges; each edge is figured to read both ways

1626. Set of six White-Edge Scales, 12-inch. Divided, 10, 20, 30, 40, 50, 60 parts to the inch.....per set, \$ 9.00
1627. Set of eight White-Edge Scales, 12-inch. Divided 10, 20, 30, 40, 50, 60, 80, 100 parts to the inch.....per set, 13.00



TECHNICAL SUPPLY COMPANY SCRANTON, PA.

TRIANGULAR BOXWOOD SCALES

U. S. Standard, Machine Divided



1701

Divided $\frac{3}{32}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 3 inches to the foot

- 1700. Triangular Boxwood Scale, 6 inches.....each, \$.70
- 1701. Triangular Boxwood Scale, 12 inches.....each, 1.00
- 1702. Triangular Boxwood Scale, 18 inches.....each, 2.50
- 1703. Triangular Boxwood Scale, 24 inches.....each, 4.25

Divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3, 4 inches to the foot

- 1705. Triangular Boxwood Scale, 12 inches.....each, \$1.00
- 1706. Triangular Boxwood Scale, 18 inches.....each, 2.50
- 1707. Triangular Boxwood Scale, 24 inches.....each, 4.25



1711

Divided 10, 20, 30, 40, 50, 60 parts to the inch

- 1710. Triangular Boxwood Chain Scale, 6 inches.....each, \$.70
- 1711. Triangular Boxwood Chain Scale, 12 inches.....each, 1.00
- 1712. Triangular Boxwood Chain Scale, 18 inches.....each, 2.50
- 1713. Triangular Boxwood Chain Scale, 24 inches.....each, 4.25

Divided 20, 30, 40, 50, 60, 80 parts to the inch

- 1715. Triangular Boxwood Chain Scale, 12 inches.....each, \$1.10
- 1716. Triangular Boxwood Chain Scale, 18 inches.....each, 2.50
- 1717. Triangular Boxwood Chain Scale, 24 inches.....each, 4.25
- 1718. Triangular Boxwood Chain Scale, 12 inches, divided 100, 200,
300, 400, 500, 600 parts to the foot.....each, 3.25

TRIANGULAR BOXWOOD METRIC SCALES

- 1720. Triangular Boxwood Scale, 20 cm., div. to mm. and $\frac{1}{2}$ mm....each, \$1.25
- 1721. Triangular Boxwood Scale, 30 cm., div. to mm. and $\frac{1}{2}$ mm....each, 1.60
- 1722. Triangular Boxwood Scale, 50 cm., div. to mm. and $\frac{1}{2}$ mm....each, 2.80

If Special Scales are desired, send sketch showing divisions and numbering, and figure cost at double the list price of similar regular Scales.



TRIANGULAR WHITE-EDGE SCALES

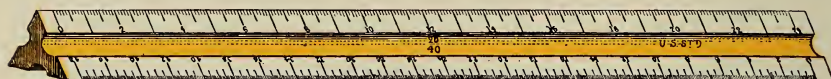
U. S. Standard, Machine Divided



1731

Divided $\frac{3}{32}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 3 inches to the foot

- 1730. Triangular White-Edge Scale, 6 inches.....each, \$1.50
 - 1731. Triangular White-Edge Scale, 12 inches.....each, 2.50
 - 1732. Triangular White-Edge Scale, 18 inches.....each, 4.60
 - 1733. Triangular White-Edge Scale, 24 inches.....each, 6.60
- Divided $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3, 4 inches to the foot
- 1735. Triangular White-Edge Scale, 12 inches.....each, \$2.50
 - 1736. Triangular White-Edge Scale, 18 inches.....each, 4.50
 - 1738. Triangular White-Edge Scale, 24 inches.....each, 6.60



1741

Divided 10, 20, 30, 40, 50, 60 parts to the inch

- 1740. Triangular White-Edge Chain Scale, 6 inches.....each, \$1.50
- 1741. Triangular White-Edge Chain Scale, 12 inches.....each, 2.50
- 1742. Triangular White-Edge Chain Scale, 18 inches.....each, 4.60
- 1743. Triangular White-Edge Chain Scale, 24 inches.....each, 6.60
- 1745. Triangular White-Edge Chain Scale, 12 inches. Divided 20, 30, 40, 50, 60, 80 parts to the inch.....each, 2.50
- 1746. Triangular White-Edge Chain Scale, 12 inches. Divided 100, 200, 300, 400, 500, 600 parts to the foot.....each, 2.50

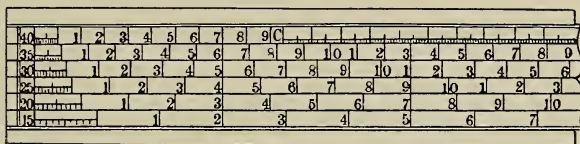
METALLIC TRIANGULAR SCALES



1752

- 1752. Metallic Triangular Scale, 12 inches. Divided $\frac{3}{32}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $1\frac{1}{2}$, 3 inches to the foot.....each, \$2.50
- 1753. Metallic Triangular Scale, 12 inches. Divided 10, 20, 30, 40, 50, 60 parts to the inch.....each, 2.50
- 1754. Metallic Triangular Scale, 12 inches. Divided 20, 30, 40, 50, 60, 80 parts to the inch each, 2.50

PLOTTING SCALES



1756

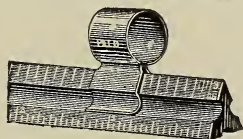
1756. Boxwood Plotting Scale, 6 inches.....each, \$.15
 1758. Ivory Plotting Scale, 6 inches.....each, .90

PAPER SCALES

Printed on Bristol Board

1760. Cardboard Scale, 18 inches long, full divided $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, 1, $1\frac{1}{2}$,
 3 inches to the foot.
 Per set of eight scales\$1.50
 Single scale 25
1762. Cardboard Scale, 18 inches long, full divided 10, 20, 30, 40, 50, 60
 parts to the inch.
 Per set of six scales 1.10
 Single scale 25
1764. Metric Paper Scale, $\frac{1}{2}$ meter long, divided into millimeters.
 Each 25

SCALE GUARD

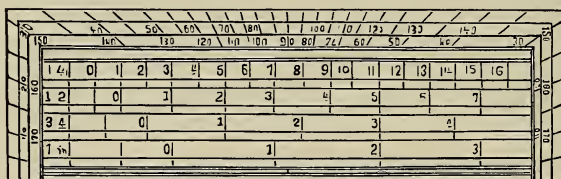


1770

1770. Triangular Scale Guard, nickel plated.....each, \$.20

If Special Scales are desired, send sketch showing divisions and numbering, and figure cost at double the list price of similar regular Scales.

BOXWOOD AND IVORY PROTRACTORS



1775

- | | Each |
|--|-------|
| 1775. Boxwood Protractor, 6 inches long, $1\frac{3}{4}$ inches wide, scales of $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 inch to the foot; scale of chords; diagonal scales..... | \$.35 |
| 1776. Square Ivory Protractor, 6 inches long, $1\frac{3}{4}$ inches wide, divided into whole degrees, $\frac{1}{4}$ -, $\frac{1}{2}$ -, $\frac{3}{4}$ -, 1-inch scales, scale of chords, diagonal scale, scales of 25, 30, 35, 40, 45 parts per inch..... | 1.60 |
| 1777. Square Ivory Protractor, 6 inches long, $1\frac{3}{4}$ inches wide, divided into whole degrees, $\frac{1}{8}$ -, $\frac{1}{4}$ -, $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, $\frac{7}{8}$ -, 1-inch scales, scale of chords, diagonal scale, scales of 30, 35, 40, 45, 50, 60 parts per inch | 2.25 |
| 1778. Square Ivory Protractor, 6 inches long, 2 inches wide, divided into whole degrees, $\frac{1}{8}$ -, $\frac{1}{4}$ -, $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, $\frac{7}{8}$ -, 1-, $1\frac{1}{8}$ -, $1\frac{1}{4}$ -, $1\frac{1}{2}$ -inch scales, scale of chords, diagonal scale, scales of 30, 35, 40, 45, 50, 60 parts per inch..... | 5.25 |

BRASS PROTRACTORS

- | | |
|---|-------------|
| 1780. Semicircular, $3\frac{3}{8}$ inches diameter, 1 degree..... | each, \$.10 |
| 1781. Semicircular, $4\frac{1}{4}$ inches diameter, 1 degree..... | each, .25 |
| 1782. Semicircular, $5\frac{1}{8}$ inches diameter, $\frac{1}{2}$ degree..... | each, .50 |
| 1783. Semicircular, $6\frac{3}{8}$ inches diameter, $\frac{1}{2}$ degree..... | each, .70 |

PAPER PROTRACTORS

- | | Each |
|---|------|
| 1784. Circular Protractor, on Drawing Paper, 8 in. diameter, $\frac{1}{2}$ degree... \$ | .20 |
| 1785. Circular Protractor, on Drawing Paper, 14 in. diameter, $\frac{1}{4}$ degree.. | .30 |
| 1786. Circular Protractor, on Bristol Board, 8 in. diameter, $\frac{1}{2}$ degree.... | .20 |
| 1787. Circular Protractor, on Bristol Board, 14 in. diameter, $\frac{1}{4}$ degree.... | .40 |
| 1788. Circular Protractor, on Tracing Paper, 8 in. diameter, $\frac{1}{2}$ degree.... | .20 |
| 1789. Circular Protractor, on Tracing Paper, 14 in. diameter, $\frac{1}{4}$ degree.. | .30 |



"TEC"

Mail Order Department



ALL goods listed in this catalog weighing not more than eleven pounds and measuring not more than 72 inches in combined length and girth can be shipped anywhere in the United States by Parcel Post.

For those beyond reach of "Tec" representatives and located in towns where we are at present without dealers, the Parcel Post is a splendid institution. It means quick service at a minimum cost and a certainty of goods arriving in first-class condition.

Wherever possible—shipments are made the day orders are received after a thorough inspection before packing.

Under the "Tec" plan it is just as safe to shop by mail as in person. In each instance your inquiries and orders will receive the best attention we know how to give.

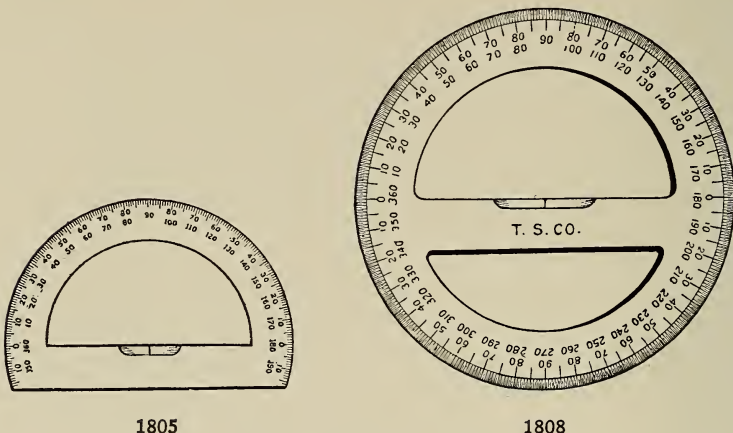
If you are looking for some special article not listed in this catalog, you have but to ask us about it and we will find out all we can for you.

While "Tec" service was deliberately planned to make it attractive for you to specify "Tec" material—we are just as happy to help you in other ways. We want to help you with your problems—in finding supplies best fitted to your needs.

Mail Order Department

Technical Supply Company

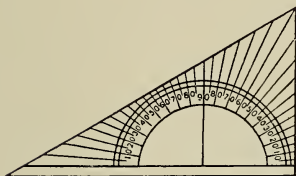
TRANSPARENT AMBER PROTRACTORS



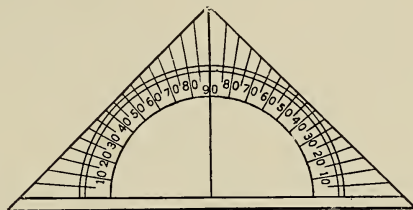
- | | |
|--|--------------|
| 1800. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, plain, 4 inches | each, \$.75 |
| 1801. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, plain, 5 inches | each, .90 |
| 1802. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, plain, 6 inches | each, 1.00 |
| 1803. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, plain, 8 inches | each, 1.75 |
| 1804. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, plain 10 inches | each, 2.50 |
| 1805. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, beveled, 6 inches | each, 2.00 |
| 1806. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, beveled, 8 inches | each, 3.50 |
| 1807. Semicircular Amber Protractor, open center, divided $\frac{1}{2}$ degree, beveled, 10 inches | each, 5.00 |
| 1808. Circular Protractor, open center, divided $\frac{1}{2}$ degree, beveled, 6 inches | each, 4.00 |
| 1809. Circular Protractor, open center, divided $\frac{1}{2}$ degree, beveled, 8 inches | each, 6.25 |
| 1810. Circular Protractor, open center, divided $\frac{1}{2}$ degree, beveled, 10 inches | each, 8.00 |

All kinds of protractors made to order

TRIANGULAR AMBER PROTRACTORS



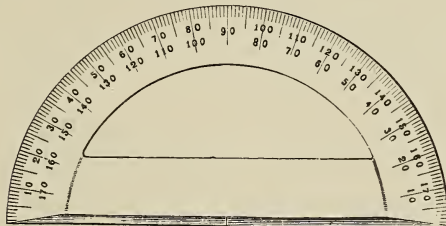
1815



1818

	Each
1815. Triangle Cellulosid Protractor, 30×60 deg., 5 in., div. to 1 deg.....	\$.50
1816. Triangle Cellulosid Protractor, 30×60 deg., 6 in., div. to 1 deg.....	.60
1817. Triangle Cellulosid Protractor, 30×60 deg., 7 in., div. to 1 deg.....	.70
1818. Triangle Cellulosid Protractor, 45 deg., 5 in., div. to 1 deg.....	.50
1819. Triangle Cellulosid Protractor, 45 deg., 6 in., div. to 1 deg.....	.70
1820. Triangle Cellulosid Protractor, 45 deg., 7 in., div. to 1 deg.....	.90

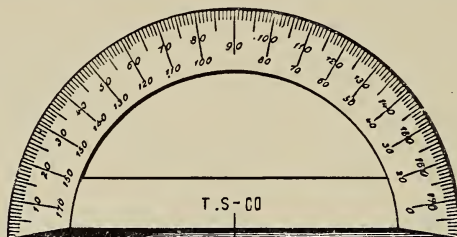
GERMAN-SILVER PROTRACTORS



1830-1834

1830. Semicircular, $4\frac{1}{4}$ inches diameter, 1 degree.....	each, \$.60
1831. Semicircular, $5\frac{1}{2}$ inches diameter, $\frac{1}{2}$ degree.....	each, .80
1832. Semicircular, $6\frac{3}{8}$ inches diameter, $\frac{1}{2}$ degree.....	each, 1.00
1833. Semicircular, $7\frac{1}{2}$ inches diameter, $\frac{1}{2}$ degree.....	each, 1.20
1834. Semicircular, $8\frac{1}{2}$ inches diameter, $\frac{1}{2}$ degree.....	each, 1.60

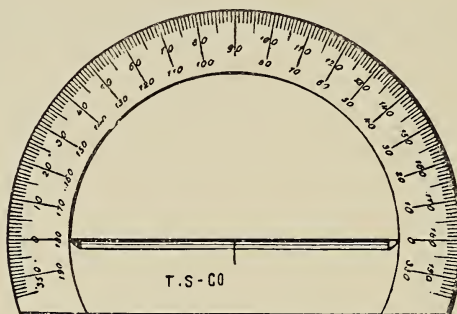
“TEC” BRAND PROTRACTORS



1835

Center on Outer Edge

	Each
1835. Semicircular, German Silver, beveled edge, 1 degree, 4 inches.....	\$1.35
1836. Semicircular, German Silver, beveled edge, $\frac{1}{2}$ degree, 5 inches.....	1.75
1837. Semicircular, German Silver, beveled edge, $\frac{1}{2}$ degree, 6 inches.....	2.25
1838. Semicircular, German Silver, beveled edge, $\frac{1}{4}$ degree, 6 inches.....	3.00
1839. Semicircular, German Silver, beveled edge, $\frac{1}{2}$ degree, 7 inches.....	3.00
1840. Semicircular, German Silver, beveled edge, $\frac{1}{2}$ degree, 8 inches.....	3.75

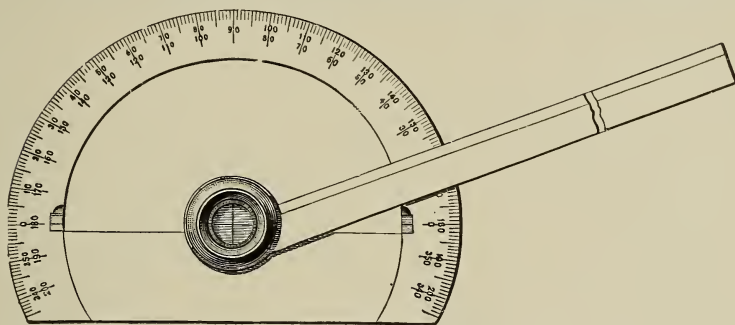


1845

Center on Inner Edge

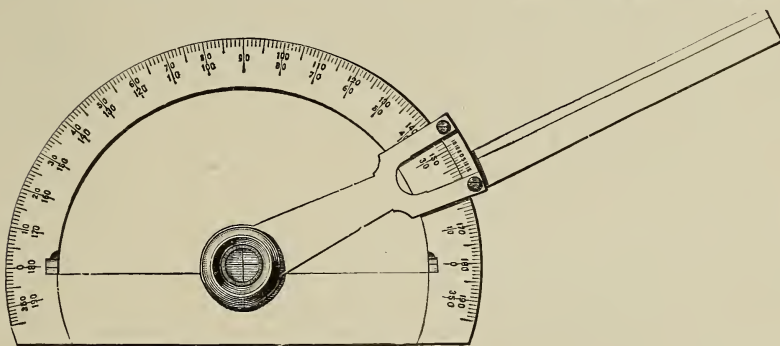
	Each
1845. Semicircular, German Silver, beveled edge, 1 degree, 4 inches.....	\$1.75
1846. Semicircular, German Silver, beveled edge, $\frac{1}{2}$ degree, 5 inches.....	2.25
1847. Semicircular, German Silver, beveled edge, $\frac{1}{2}$ degree, 6 inches.....	2.65
1848. Semicircular, German Silver, beveled edge, $\frac{1}{4}$ degree, 6 inches.....	3.25

“TEC” BRAND PROTRACTORS—Continued



1850

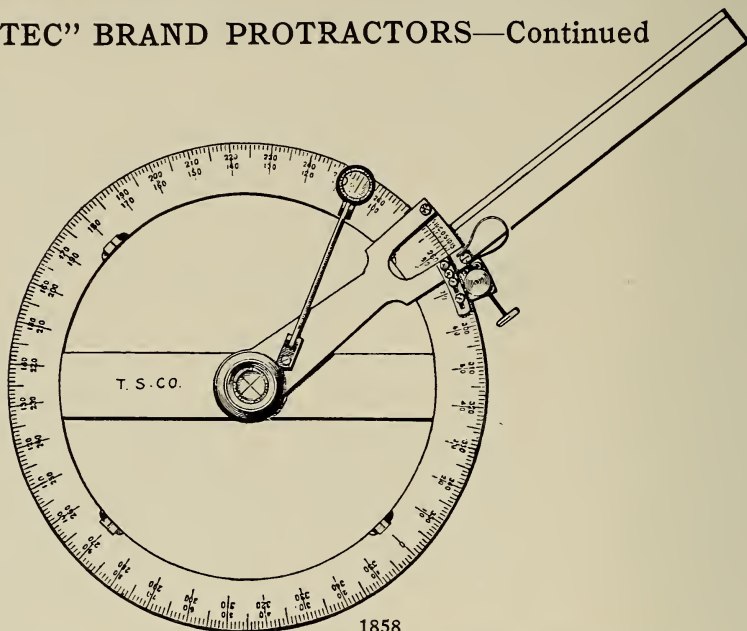
1850. Semicircular, German Silver, $\frac{1}{2}$ degree, $5\frac{1}{2}$ inches.....each, \$ 7.60
 1851. Semicircular, German Silver, $\frac{1}{4}$ degree, 8 inches.....each, 10.00
 1852. Semicircular, German Silver, $\frac{1}{4}$ degree, 10 inches.....each, 13.50
 Length of arm beyond outer edge of Protractors, 1850, $5\frac{1}{2}$ inches;
 1851, 6 inches; 1852, $6\frac{1}{2}$ inches
 Morocco Cases, silk velvet lined—each, 1850, \$3.50; 1851, \$4; 1852, \$4.50.



1855

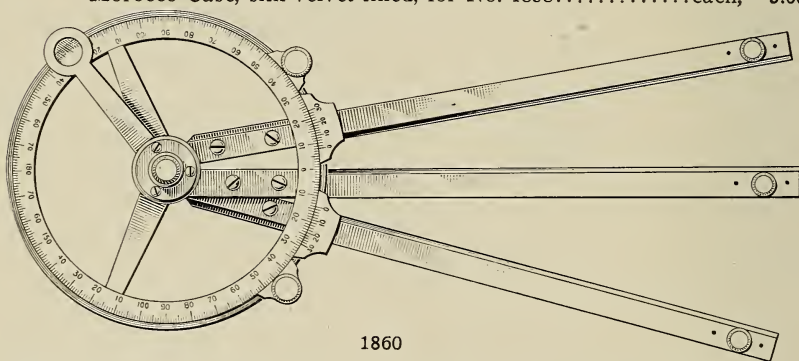
1855. Circular, German Silver, $\frac{1}{4}$ degree, $5\frac{1}{2}$ inches, vernier reading to 3 minutes each, \$15.00
 1856. Circular, German Silver, $\frac{1}{4}$ degree, 8 inches, vernier reading to 1 minute each, 17.50
 1857. Circular, German Silver, $\frac{1}{4}$ degree, 10 inches, vernier reading to 1 minute each, 21.50
 Length of arm beyond edge of Protractors, 1855, $5\frac{1}{2}$ inches; 1856, 6 inches; 1857, $6\frac{1}{2}$ inches.
 Morocco Cases, silk velvet lined, each, 1855, \$4; 1856, \$4.50; 1857, \$5.

“TEC” BRAND PROTRACTORS—Continued



1858

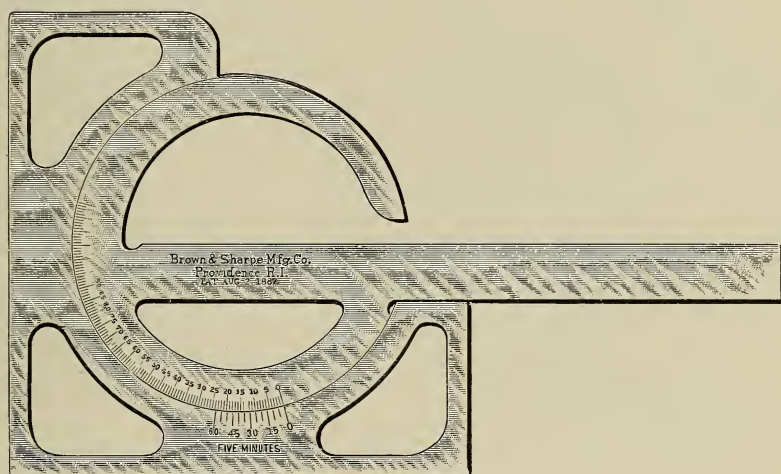
1858. Circular, German Silver, $\frac{1}{4}$ degree, 8 inches diameter, vernier reading to 1 minute, with clamp screw, micrometer adjustment screw to vernier and magnifying lens.....each, \$23.00
 Morocco Case, silk velvet lined, for No. 1858.....each, 5.00



1860

1860. Protractor or Station Pointer, German Silver, three arm, $6\frac{1}{2}$ inches diameter, arms 9 inches long, and extension pieces to lengthen to $17\frac{1}{2}$ inches. Divided $\frac{1}{2}$ degree, two outer arms with verniers reading to 1 minute, with magnifying lens. In mahogany case each, \$80.00

DRAFTSMAN'S PROTRACTOR



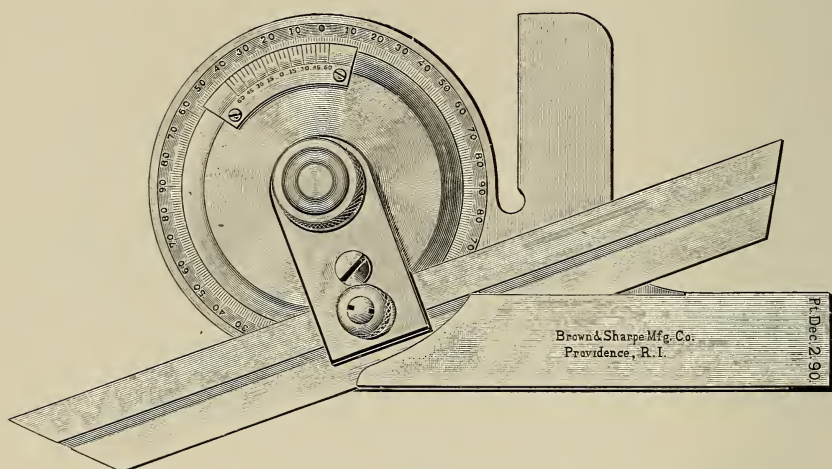
1862

This Protractor is made from sheet steel and has a blade $8\frac{1}{2}$ inches long. The graduations read to degrees and the vernier reads to 5 minutes. There are no projections on either face of the Protractor, and consequently it can be used on either edge of the blade or either side up. This makes it particularly convenient in dividing circles, transferring angles, drawing oblique lines at right angles to each other, or laying off given angles each side of a vertical or horizontal line without changing the setting.

1862. Draftsman's Steel Protractor, with directions.....each, \$6.50

1863. Draftsman's Steel Protractor, in morocco case.....each, 7.75

[UNIVERSAL BEVEL PROTRACTOR



Brown & Sharpe Mfg. Co.
Providence, R.I.

Pat. Dec. 2, 90

1864

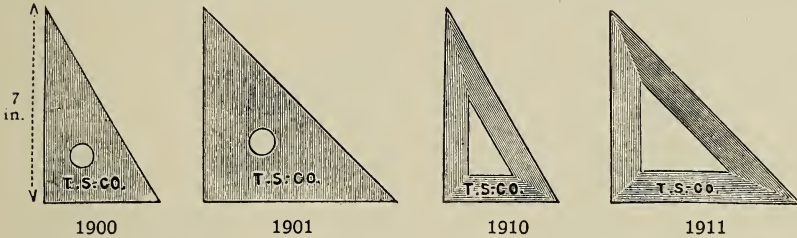
This tool is well adapted for all classes of work where angles are to be laid out or established. Its uses as a Protractor are practically unlimited. The dial is accurately graduated, in degrees, the entire circle. The line of graduations is below the surface, thus protecting them from wear. The blade is about $\frac{1}{8}$ inch thick, can be moved back and forth its entire length, and clamped independently of the dial, thus adapting the Protractor for work where others cannot be used.

1864. Universal Bevel Protractor, 6-inch blade.....each, \$8.00

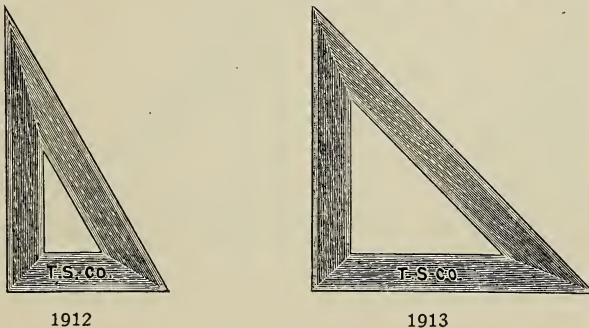
1865. Universal Bevel Protractor, 12-inch blade.....each, 9.00

WOODEN TRIANGLES

Good Workmanship, Well-Seasoned Material



	Size, in Inches,		7	9	
1900. Cherry Triangles, solid, 30×60 degrees, each.....			\$.08	\$.10	
1901. Cherry Triangles, solid, 45 degrees.					
	Size, in Inches,		5½	7½	
Each			\$.08	\$.10	
1902. Cherry Triangles, framed, mortised joints, 30×60 degrees.					
	Size, in Inches,		6	8	10 12 14
Each	\$.10	\$.12	\$.16	\$.20	\$.24
1903. Cherry Triangles, framed, mortised joints, 45 degrees.					
	Size in inches,		4	6	8 10 12
Each	\$.10	\$.12	\$.16	\$.20	\$.24
1910. Pearwood Triangles, framed, extra quality, 30×60 degrees.					
	Size, in Inches,		6	8	10 12 14
Each	\$.16	\$.18	\$.24	\$.30	\$.36
1911. Pearwood Triangles, framed, extra quality, 45 degrees.					
	Size, in Inches,		4	6	8 10 12
Each	\$.16	\$.18	\$.24	\$.30	\$.36

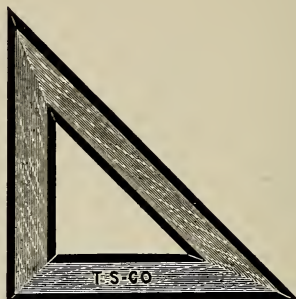


1912. Hardwood-lined Triangles, mortised joints, 30×60 degrees.						
	Size, in Inches,		6	8	10 12 14	16
Each	\$.22	\$.25	\$.30	\$.40	\$.50	\$.75
1913. Hardwood-lined Triangles, mortised joints, 45 degrees.						
	Size, in Inches,		4	6	8 10 12	14
Each	\$.22	\$.25	\$.30	\$.40	\$.50	\$.75

WOODEN TRIANGLES—Continued



1915



1916

1915. Mahogany, Ebony-Lined Triangles, mortised joints, 30×60 degrees.

	Size, in Inches,	8	10	12	14	16	20
Each	.....	\$ .40	\$.45	\$.60	\$.80	\$ 1.30	\$ 1.70

1916. Mahogany, Ebony-Lined Triangles, mortised joints, 45 degrees.

	Size, in Inches	6	8	10	12	14	16
Each	.....	\$ .40	\$.45	\$.60	\$.80	\$ 1.30	\$ 1.70

HARD-RUBBER TRIANGLES



1918



1920

1918. Hard-Rubber Triangles, 30×60 degrees.

Size, in Inches,	4	5	6	7	8	9	10	12	14	16	18
Each,	\$.15	\$.20	\$.25	\$.30	\$.35	\$.40	\$.45	\$.60	\$ 1.00	\$ 1.50	\$ 2.00

1920. Hard-Rubber Triangles, 45 degrees.

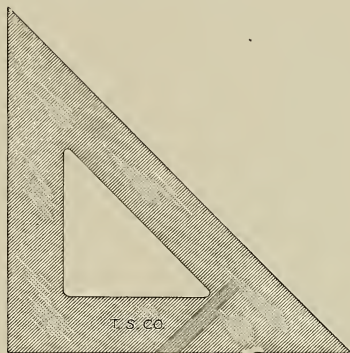
Size, in Inches,	3	4	5	6	7	8	9	10	12	14	16
Each,	\$.15	\$.25	\$.30	\$.35	\$.40	\$.45	\$.55	\$.60	\$ 1.00	\$ 1.50	\$ 2.20

TRANSPARENT AMBER TRIANGLES

Best Quality Amber, will not Warp or Chip



1925



1926

1925. Transparent Amber Triangles, 30×60 degrees.

Size, in Inches, 4 5 6 7 8 9 10 11 12 14 16 18

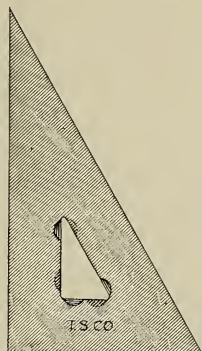
Each, \$.25 \$.35 \$.45 \$.50 \$.60 \$.70 \$.80 \$.90 \$1.00 \$1.50 \$2.30 \$3.25

1926. Transparent Amber Triangles, 45 degrees.

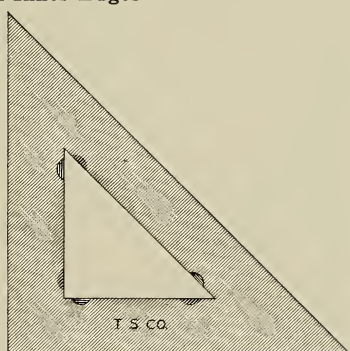
Size, in Inches, 3 4 5 6 7 8 9 10 12 14 16

Each, \$.25 \$.35 \$.45 \$.50 \$.60 \$.70 \$.90 \$1.00 \$1.50 \$2.30 \$3.25

With Bevels on Inner Edges



1930



1931

1930. Transparent Amber Triangles, 30×60 degrees, beveled on innner edges.

Size, in Inches, 4 5 6 7 8 9 10 11 12 14 16 18

Each, \$.30 \$.40 \$.45 \$.50 \$.60 \$.70 \$.80 \$.90 \$1.10 \$1.80 \$2.70 \$3.50

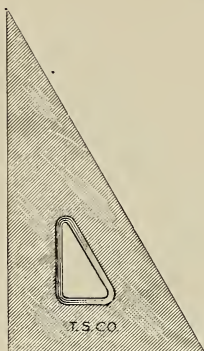
1931. Transparent Amber Triangles, 45 degrees, beveled on inner edges.

Size, in Inches, 3 4 5 6 7 8 9 10 12 14 16

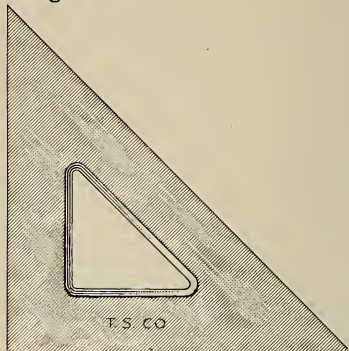
Each, \$.35 \$.40 \$.50 \$.60 \$.70 \$.80 \$1.10 \$1.20 \$1.80 \$2.40 \$3.30

TRANSPARENT AMBER TRIANGLES—Continued

With Entire Inner Edge Beveled



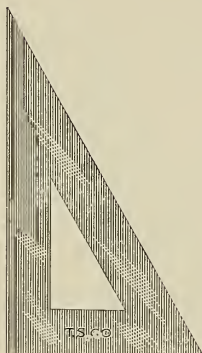
1935



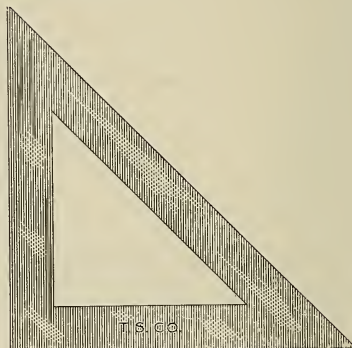
1936

1935. Transparent Amber Triangles, entire inner edge beveled, 30×60 degrees.
 Size, in Inches, 4 5 6 7 8 9 10 11 12 14 16 18
 Each, \$.30 \$.40 \$.45 \$.50 \$.60 \$.70 \$.80 \$.90 \$1.10 \$1.80 \$2.70 \$3.50
1936. Transparent Amber Triangles, entire inner edge beveled, 45 degrees.
 Size, in Inches, 3 4 5 6 7 8 9 10 12 14 16
 Each, \$.35 \$.40 \$.50 \$.60 \$.70 \$.80 \$1.10 \$1.20 \$1.80 \$2.40 \$3.30

STEEL TRIANGLES



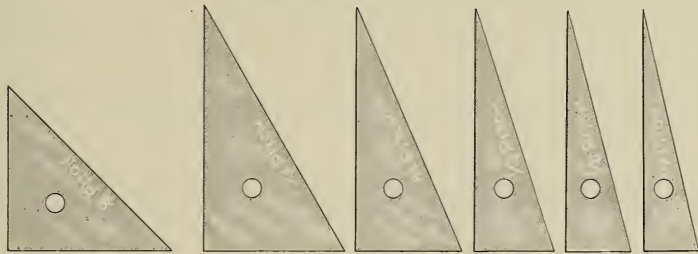
1940



1941

1940. Steel Triangles, nickel plated, 30×60 degrees.
 Size, in Inches, 6 7 8 11 15
 Each \$3.25 \$3.50 \$3.75 \$4.25 \$6.50
1941. Steel Triangles, nickel plated, 45 degrees.
 Size, in Inches, 5 6 8 10 12
 Each \$3.25 \$3.50 \$4.25 \$5.60 \$6.60

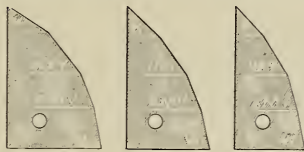
TRIANGLES FOR ROOF PITCHES AND EMBANKMENTS



1950

- 1950. Amber Triangles for Roof Pitches, six in set.....per set, \$6.00
- 1951. Amber Triangles for Embankments, eight slopes, six tem-
plets per set, 4.50

LETTERING ANGLES



1953

- 1952. Hard-Rubber Lettering Angles, 3½ inches, three in set....per set, \$1.45
- 1953. Transparent Amber Lettering Angles, 3½ inches, three in set..... 2.00



1955

- 1955. Transparent Amber Lettering Templets, three in set.....per set, \$2.00



STRAIGHTEDGES



2000

2000. Cherry, one edge beveled.

Size, in Inches,	18	24	30	36	42
Each	\$.20	\$.25	\$.30	\$.40	\$.50



2001

2001. Ash, hardwood lined, one edge beveled.

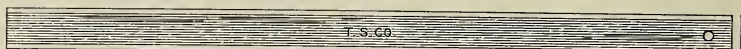
Size, in Inches,	24	30	36	42	48	54	60	72
Each	\$.35	\$.45	\$.60	\$.75	\$ 1.00	\$ 1.20	\$ 1.50	\$ 2.00



2002

2002. Mahogany, ebony lined, one edge beveled.

Size, in Inches,	24	30	36	42	48	54
Each	\$.50	\$.60	\$.80	\$ 1.00	\$ 1.35	\$ 1.60



2003

2003. Transparent amber lined square edges, grooved joint.

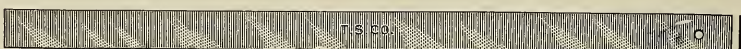
Size, in Inches,	18	24	30	36	42	48
Each	\$.90	\$ 1.20	\$ 1.40	\$ 1.70	\$ 2.00	\$ 2.40



2004

2004. Steel Straightedges, nickel plated, one edge beveled.

Size, in Inches,	15	18	24	30	36	42	48	60	72
Each	\$ 1.75	\$ 2.00	\$ 3.00	\$ 4.00	\$ 5.00	\$ 6.50	\$ 8.00	\$ 11.00	\$ 15.00

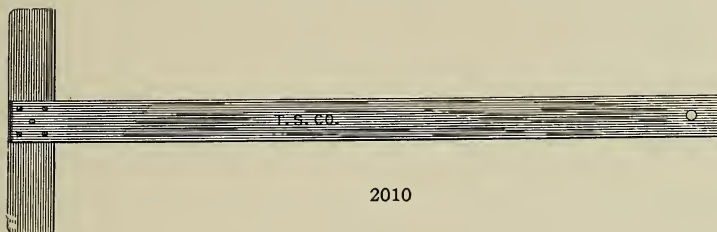


2005

2005. Steel Straightedges, nickel plated, square edges.

Size, in Inches,	15	18	24	30	36	42	48	60	72
Each	\$ 1.25	\$ 1.50	\$ 2.00	\$ 3.00	\$ 4.00	\$ 5.00	\$ 6.00	\$ 8.50	\$ 12.00

WOODEN T SQUARES



2010

2010. Cherry Blade, fixed head.

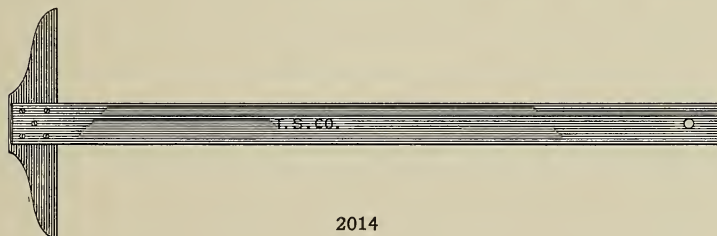
	Size, in Inches,		15	18	24	30	36	42	48
Each			\$.20	\$.25	\$.30	\$.35	\$.40	\$.50	\$.65



2012

2012. Cherry Blade, shifting double head.

	Size, in Inches,		15	18	24	30	36	42	48
Each			\$.55	\$.65	\$.75	\$.85	\$.90	\$ 1.00	\$ 1.25



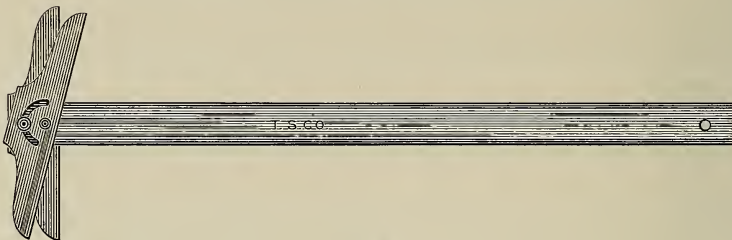
2014

2014. Hardwood-Lined Blade, black-walnut fixed head.

	Size, in Inches,		24	30	36	42	48	54	60	72
Each			\$.80	\$.95	\$ 1.10	\$ 1.25	\$ 1.50	\$ 1.80	\$ 2.25	\$ 3.00



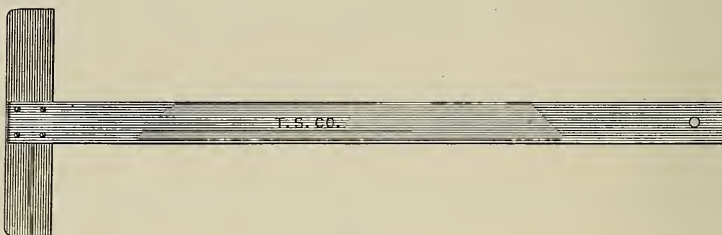
WOODEN T SQUARES—Continued



2016

2016. Hardwood-Lined Blade, double shifting head, with two nickel-plated swivels.

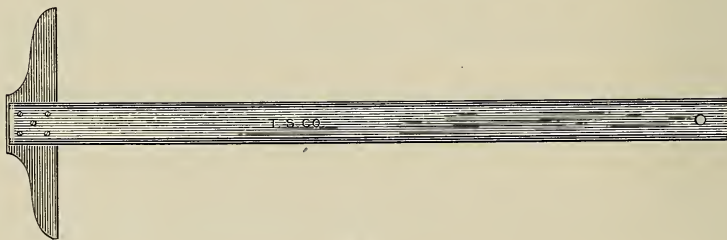
Size, in Inches,	24	30	36	42	48	54	60	72
Each	\$1.40	\$1.50	\$1.65	\$1.90	\$2.20	\$2.60	\$3.00	\$4.00



2018

2018. Pearwood, fixed head, extra quality.

Sizes, in Inches,	15	18	24	30	36	42	48
Each	\$1.25	\$1.30	\$1.35	\$1.45	\$1.55	\$1.55	\$1.90

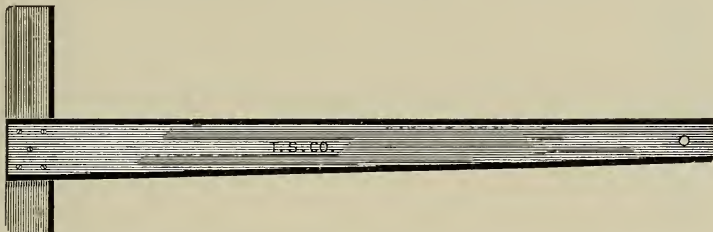


2020

2020. Maple Blade, Black Walnut, fixed head.

Size, in Inches,	24	30	36	42	48	54
Each	\$1.60	\$1.75	\$1.90	\$1.05	\$1.20	\$1.40

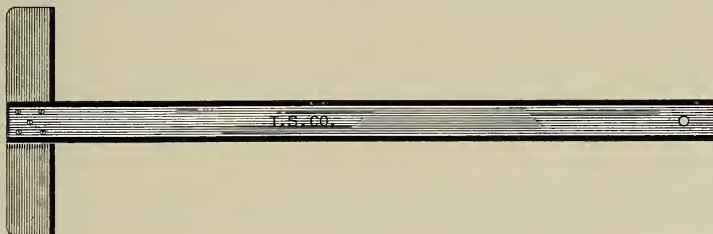
WOODEN T SQUARES—Continued



2022

2022. Mahogany, Ebony-Lined Blade, fixed head, beveled edge, tapered blade.

	Size, in*	Inches,	30	36	42	48	54
Each			\$1.25	\$1.45	\$1.65	\$1.90	\$2.25



2024

2024. Mahogany, Ebony-Lined Blade, fixed head.

	Size, in Inches,	24	30	36	42	48	54	60
Each		\$1.00	\$1.20	\$1.30	\$1.50	\$1.85	\$2.15	\$2.70



2026

2026. Mahogany, Ebony-Lined Blade, with shifting double head, two nickel-plated swivels.

	Size, in Inches,	24	30	36	42	48	54	60
Each		\$1.70	\$1.95	\$2.20	\$2.45	\$2.75	\$3.20	\$3.85

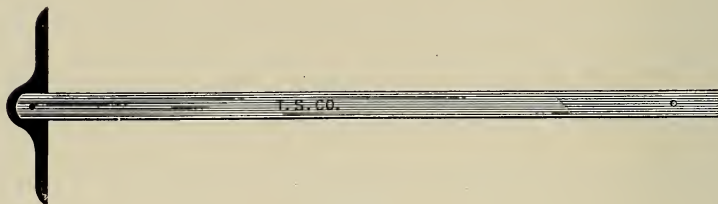
WOODEN T SQUARES—Continued



2027

2027. Mahogany, Ebony-Lined Blade, movable head, with patent clamping swivel, and micrometer adjustment.

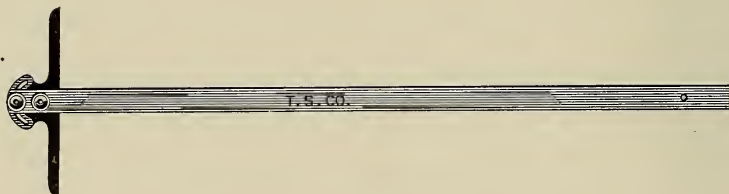
	Size, in Inches, 24	30	36	42	48	54	60
Each	\$2.60	\$2.70	\$3.00	\$3.25	\$3.50	\$4.00	\$4.50



2030

2030. Steel Blade, heavy nickel plated, fixed japanned-iron head.

	Size, in Inches, 24	30	36	42
Each	\$3.50	\$4.50	\$5.60	\$6.60

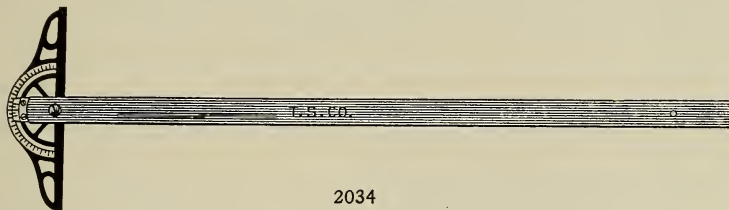


2032

2032. Steel Blade, heavy nickel plated, movable japanned-iron head.

	Size, in Inches, 24	30	36	42
Each	\$5.00	\$5.75	\$6.75	\$7.75

WOODEN T SQUARES—Continued



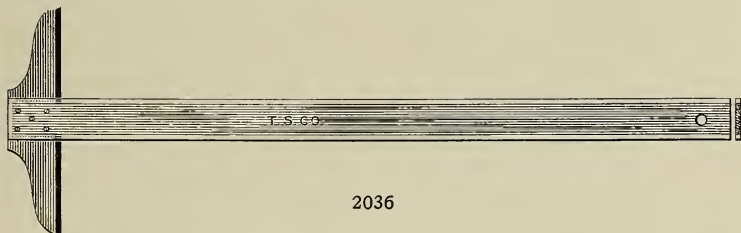
2034

2034. Protractor T Square, Steel Blade, nickel plated, shifting head, with protractor divided to half degrees. Vernier on end of blade reading to minutes.

	Size, in Inches,	24	30	36	42
Each		\$8.50	\$9.50	\$10.50	\$11.50

TRANSPARENT AMBER-LINED T SQUARES

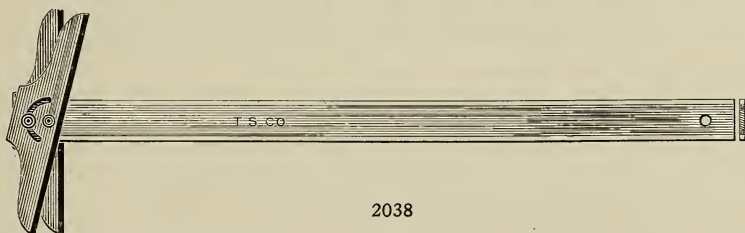
These squares are warranted not to warp or chip. The wood is well-seasoned, kiln-dried, selected maple; the amber very transparent and thick. We guarantee that this amber will not loosen from blade.



2036

2036. Transparent Amber Lined, Maple Blade, black-walnut fixed head.

	Size, in Inches,	18	24	30	36	42	48
Each		\$1.40	\$1.80	\$2.20	\$2.50	\$3.00	\$3.30



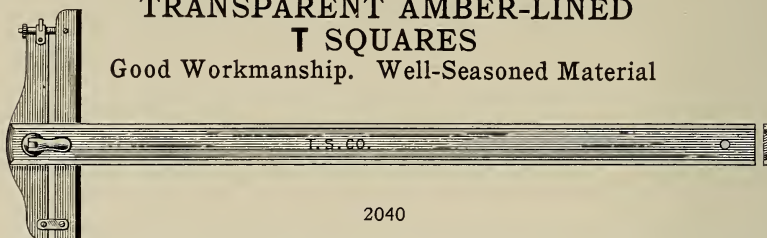
2038

2038. Transparent Amber Lined, Maple Blade, shifting double head, with two nickel-plated swivels.

	Size, in Inches,	18	24	30	36	42	48
Each		\$2.20	\$2.70	\$3.00	\$3.50	\$4.00	\$4.50

TRANSPARENT AMBER-LINED T SQUARES

Good Workmanship. Well-Seasoned Material



2040

2040. Transparent Amber Lined, Maple Blade, movable head, with patent clamping swivel and micrometer adjustment.

	Size, in Inches,	24	30	36	42	48
Each		\$3.50	\$3.70	\$4.20	\$4.70	\$5.50

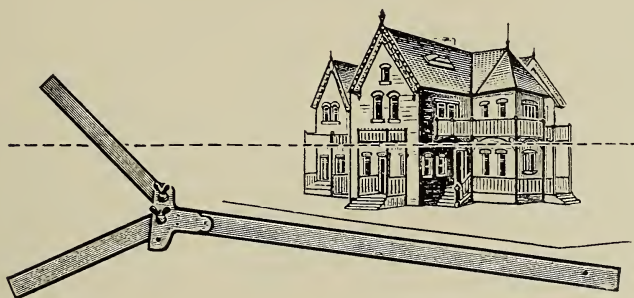
PARALLEL-RULER ATTACHMENT

For use on Drawing Frames, Drawing Boards, and the Blackboard



2045. Attachments are of brass, highly polished, easily taken apart for cleaning and oiling. Operates easily at any angle of board or table, carrying the ruler blade with a light touch of the fingers of either hand, enabling the draftsman to carry the scale for measurements in the left hand, a practice not convenient with the T-square method, and by which increased rapidity is obtained. Used in connection with the tilting table, it allows the draftsman to assume a more healthy and pleasant attitude at his work. The attachments can readily be attached to the drawing boards now in use, utilizing the straightedges, as listed on page 188. Full directions with each outfit. Parallel-Ruler Attachment, for drawing boards, 24 inches to 60 inches long, complete.....each, \$5.00

PERSPECTIVE LINEADS



2046

2046. Perspective Linead or Centrolinead, mahogany, ebony lined, nickel-plated swivels, with two studs, blade 24 inches, arms, 10 inches each, \$3.00
2047. Same as No. 2046, with blade 30 inches, arms 11 inches.....each, 3.50
2048. Same as No. 2047, with blade 36 inches, arms 12 inches.....each, 4.00

BARS FOR BEAM COMPASSES



Style No. 1



No. 2



No. 3

2052. Bars for Beam Compasses, made of hardwood. Style Nos. 1, 2, or 3.
- | | Size, in Inches, 24 | 30 | 36 | 42 | 48 | 60 |
|------------|---------------------|--------|--------|--------|--------|--------|
| Each | \$.25 | \$.30 | \$.35 | \$.40 | \$.50 | \$.65 |

ADJUSTABLE CURVE RULERS



2054

2054. Adjustable Curve Ruler, 14½ inches long.....each, \$1.90



2055

2055. Adjustable Curve Ruler, 30 inches long.....each, \$2.90



2056

2056. Adjustable Curve Ruler, Double Edge, 7 inches long.....each, \$.35

2057. Adjustable Curve Ruler, Double Edge, 15 inches long.....each, .75

2058. Adjustable Curve Ruler, Double Edge, 31 inches long.....each, 1.50

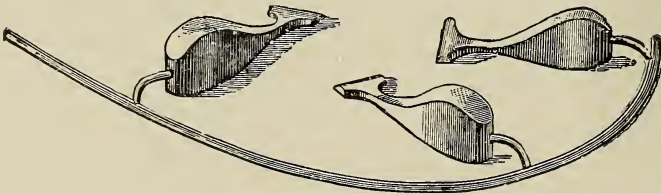
SPLINES



2060

	Size, in Inches,	18	24	30	36	42	48	60
2060. Wood	each,	\$15	\$20	\$25	\$30	\$35	\$40	\$50
2061. Hard Rubber	each,	.25	.30	.40	.45	.50		

WEIGHTS FOR SPLINES



2062

2062. Lead Weights for Splines, with hook.....each, \$1.00

IRREGULAR CURVES

In Wood, Amber, and Hard Rubber

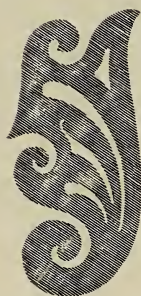


	No.	2	6	10	13	14	15	16
2080. Wood	each,	\$.20	\$.25	\$.30	\$.35	\$.35	\$.35	\$.35
2082. Hard Rubber	each,	.35	.35	.40	.50	.50	.50	.50
2084. Transparent Amber	each,	.45	.50	.65	.65	.70	.80	.80

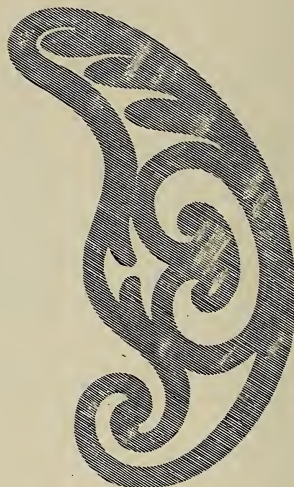


	No.	19	21	23	24	25
2080. Wood	each,	\$.40	\$.40	\$.45	\$.45	\$.50
2082. Hard Rubber	each,	.75	.75	.90	.90	1.25
2084. Transparent Amber	each,	1.15	1.15	1.40	1.40	1.70

TRANSPARENT AMBER CURVES

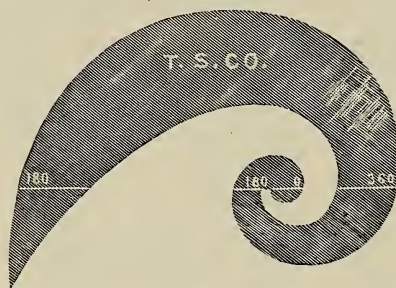


2086



2088

2086. Combination Curve of Transparent Amber.....each, \$1.00
 2088. Combination Curve of Transparent Amber.....each, 1.80



2090

2090. Spiral Logarithmic Curve of Transparent Amber, contains every curve, limited only by its size, and can be used for intricate calculations each, \$1.75

Full directions sent with each curve

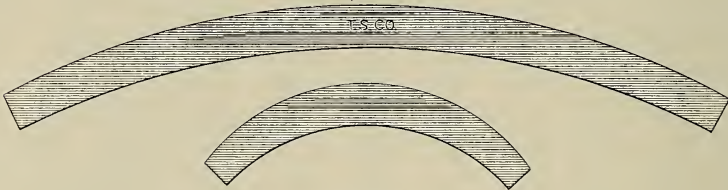
COPENHAGEN SHIP CURVES



2101. Set of above forty-five curves, in case.....each,	Wood	Rubber	Amber
	\$18.00	\$30.00	\$35.00

RAILROAD CURVES

WOODEN RAILROAD CURVES



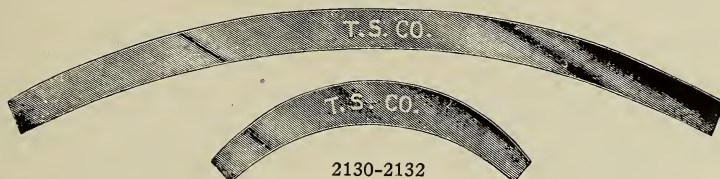
2120-2124

2120. Wooden Railroad Curves, ten in set, 12 to 120 inches radius;
 viz., 12, 24, 36, 48, 60, 72, 84, 96, 108, 120 inches, in wooden
 box per set, \$ 3.50
2122. Wooden Railroad Curves, seventeen in set, 12 to 60 inches radius;
 viz., 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 48, 51, 54, 57, 60 inches,
 in wooden box per set, 6.00
2124. Wooden Railroad Curves, forty-three in set, 3 to 200 inches
 radius; viz., 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 12, 14
 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 42, 48, 54, 60, 66, 72, 78, 84, 90,
 100, 110, 120, 130, 140, 160, 180, 200 inches, in wooden box..per set, 12.00

CARDBOARD RAILROAD CURVES

2126. Cardboard Railroad Curves, thirty in set; viz., 1½, 2, 2½, 3, 3½, 4,
 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30,
 35, 40, 45, 50, 60 inches radius, in wooden box.....per set, \$5.25
2128. Cardboard Railroad Curves, fifty in set, viz: 1½, 2, 2½, 3, 3½, 4, 4½,
 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 14, 16, 18, 20,
 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85,
 90, 95, 100, 110, 120 inches radius, in wooden box.....per set, 8.50

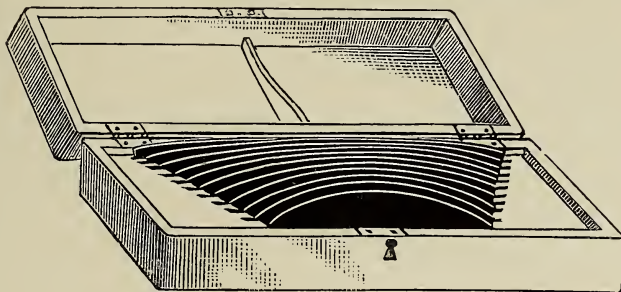
METAL RAILROAD CURVES



2130-2132

2130. Metal Railroad Curves, ten in set, 12- to 120-inch radius; viz., 12, 24, 36, 48, 60, 72, 84, 96, 108, 120 inches, in wooden box, per set, \$ 6.00
2132. Metal Railroad Curves, seventeen in set, 12- to 60-inch radius, viz., 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 48, 51, 54, 57, 60 inches, in wooden box per set, 10.80
- Single Railroad Curves of Metal.....each, .80

HARD-RUBBER RAILROAD CURVES



2134

2134. Ten Curves in set, 12- to 120-inch radius; viz., 12, 24, 36, 48, 60, 72, 84, 96, 108, 120 inches, in wooden box.....per set, \$ 6.50
2135. Seventeen Curves in set, 12- to 60-inch radius; viz., 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60 inches, in wooden box per set, 12.00
2136. Forty Curves in set, 3- to 120-inch radius; viz., 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120 inches; One Curve 1° to 100 feet, Scale 57.30 inches; One Curve 2° to 100 feet, Scale 28.65 inches, in wooden box.....per set, 25.00
- Single Railroad Curves of Hard Rubber.....each, .80

Railroad Curves of any desired scale cut to order

HARD-RUBBER RAILROAD CURVES—Continued

Of Hard Rubber With Tangent



2150

2150. Hard-Rubber Railroad Curves, with Tangent, forty-one in set marked in degrees and inches to 100 feet scale, viz.,

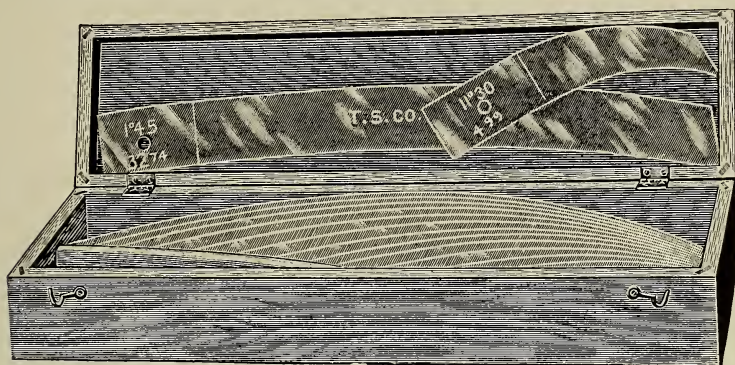
0° 30' = 114.59 inches	4° 15' = 13.48 inches	7° 45' = 7.40 inches
1° 30' = 57.30 inches	4° 30' = 12.73 inches	8° 00' = 7.17 inches
1° 15' = 45.84 inches	4° 45' = 12.07 inches	8° 15' = 6.95 inches
1° 30' = 38.20 inches	5° 00' = 11.46 inches	8° 30' = 6.75 inches
1° 45' = 32.74 inches	5° 15' = 10.92 inches	8° 45' = 6.55 inches
2° 00' = 28.65 inches	5° 30' = 10.42 inches	9° 00' = 6.37 inches
2° 15' = 25.47 inches	5° 45' = 9.97 inches	9° 15' = 6.20 inches
2° 30' = 22.92 inches	6° 00' = 9.55 inches	9° 30' = 6.04 inches
2° 45' = 20.84 inches	6° 15' = 9.17 inches	9° 45' = 5.88 inches
3° 00' = 19.10 inches	6° 30' = 8.82 inches	10° 00' = 5.74 inches
3° 15' = 17.63 inches	6° 45' = 8.49 inches	10° 30' = 5.48 inches
3° 30' = 16.37 inches	7° 00' = 8.19 inches	11° 00' = 5.22 inches
3° 45' = 15.28 inches	7° 15' = 7.91 inches	11° 30' = 4.99 inches
4° 00' = 14.33 inches	7° 30' = 7.64 inches	

In wooden box per set, \$30.00

2152. Single Railroad Curves of Hard Rubber, with Tangent.....each, \$1.00

Railroad Curves of any desired scale cut to order

TRANSPARENT AMBER RAILROAD CURVES



2160

2160. Transparent Amber Railroad Curves, ten in set, 12- to 120-inch radius; viz., 12, 24, 36, 48, 60, 72, 84, 96, 108, 120 inches, in wooden box per set, \$10.00
2162. Transparent Amber Railroad Curves, seventeen in set, 12- to 60-inch radius; viz., 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60 inches, in wooden box.....per set, 14.50
2164. Transparent Amber Railroad Curves, thirty in set, 1½- to 60-inch radius; viz., 1½, 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 35, 40, 45, 50, 60 inches, in wooden box with partition per set, 26.20
2166. Transparent Amber Railroad Curves, with Tangent, forty-one in set, marked in degrees and inches to 100-foot scale; viz.,
- | | | |
|------------------------|-----------------------|-----------------------|
| 0° 30' = 114.59 inches | 4° 15' = 13.48 inches | 7° 45' = 7.40 inches |
| 1° 30' = 57.30 inches | 4° 30' = 12.73 inches | 8° 00' = 7.17 inches |
| 1° 15' = 45.84 inches | 4° 45' = 12.07 inches | 8° 15' = 6.95 inches |
| 1° 30' = 38.20 inches | 5° 00' = 11.46 inches | 8° 30' = 6.75 inches |
| 1° 45' = 32.74 inches | 5° 15' = 10.92 inches | 8° 45' = 6.55 inches |
| 2° 00' = 28.65 inches | 5° 30' = 10.42 inches | 9° 00' = 6.37 inches |
| 2° 15' = 25.47 inches | 5° 45' = 9.97 inches | 9° 15' = 6.20 inches |
| 2° 30' = 22.92 inches | 6° 00' = 9.55 inches | 9° 30' = 6.04 inches |
| 2° 45' = 20.84 inches | 6° 15' = 9.17 inches | 9° 45' = 5.88 inches |
| 3° 00' = 19.10 inches | 6° 30' = 8.82 inches | 10° 00' = 5.74 inches |
| 3° 15' = 17.63 inches | 6° 45' = 8.49 inches | 10° 30' = 5.48 inches |
| 3° 30' = 16.37 inches | 7° 00' = 8.19 inches | 11° 00' = 5.22 inches |
| 3° 45' = 15.28 inches | 7° 15' = 7.91 inches | 11° 30' = 4.99 inches |
| 4° 00' = 14.33 inches | 7° 30' = 7.64 inches | |
- In wooden box with partition.....per set, \$41.00



TRANSPARENT AMBER RAILROAD CURVES

(Continued)

2168. Transparent Amber Railroad Curves, with Tangent, fifty-five
in set, marked in degrees and inches to 100-foot scale; viz.:

0° 15' = 229.18 inches	5° 00' = 11.46 inches	9° 30' = 6.04 inches
0° 30' = 114.59 inches	5° 15' = 10.92 inches	9° 45' = 5.88 inches
0° 45' = 76.39 inches	5° 30' = 10.42 inches	10° 00' = 5.74 inches
1° 00' = 57.30 inches	5° 45' = 9.97 inches	10° 30' = 5.48 inches
1° 15' = 45.84 inches	6° 00' = 9.55 inches	11° 00' = 5.22 inches
1° 30' = 38.20 inches	6° 15' = 9.17 inches	11° 30' = 4.99 inches
1° 45' = 32.74 inches	6° 30' = 8.82 inches	12° 00' = 4.78 inches
2° 00' = 28.65 inches	6° 45' = 8.49 inches	12° 30' = 4.59 inches
2° 15' = 25.47 inches	7° 00' = 8.19 inches	13° 00' = 4.42 inches
2° 30' = 22.92 inches	7° 15' = 7.91 inches	13° 30' = 4.25 inches
2° 45' = 20.84 inches	7° 30' = 7.64 inches	14° 00' = 4.10 inches
3° 00' = 19.10 inches	7° 45' = 7.40 inches	14° 30' = 3.96 inches
3° 15' = 17.63 inches	8° 00' = 7.17 inches	15° 00' = 3.83 inches
3° 30' = 16.37 inches	8° 15' = 6.95 inches	16° 00' = 3.59 inches
3° 45' = 15.28 inches	8° 30' = 6.75 inches	17° 00' = 3.38 inches
4° 00' = 14.33 inches	8° 45' = 6.55 inches	18° 00' = 3.20 inches
4° 15' = 13.48 inches	9° 00' = 6.37 inches	19° 00' = 3.03 inches
4° 30' = 12.73 inches	9° 15' = 6.20 inches	20° 00' = 2.88 inches
4° 45' = 12.07 inches		

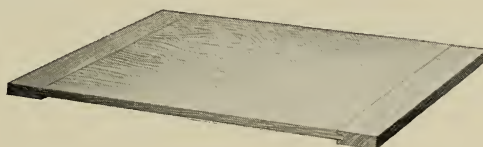
In wooden box with partition.....per set, \$54.00

2169. Single Railroad Curves of Transparent Amber.....each, 1.50

2169A. Single Railroad Curves of Transparent Amber, with Tan-
gent each, 1.75

“TEC” DRAWING BOARDS

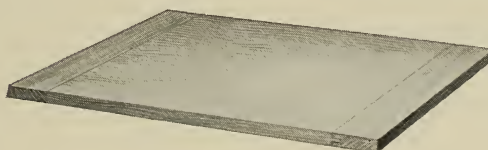
Made of soft full-seasoned timber thoroughly kiln dried. Narrow strips, carefully jointed and glued together with pure hide glue. All boards are machine sawed, hand cleaned, and inspected one at a time.



2200

2200. Pine wood, $\frac{1}{2}$ inch thick, with end cleats.

	Size, in Inches,	12 × 17	15 × 21	20 × 26	23 × 31
Each		\$.70	\$.90	\$ 1.20	\$ 1.75



2204

2204. Pine wood, $\frac{7}{8}$ inch thick, with two drawing surfaces and end cleats

	Size, in Inches,	12 × 17	15 × 21	20 × 26	23 × 31
Each		\$.70	\$.90	\$ 1.20	\$ 1.75



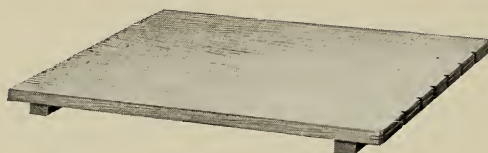
2206

2206. Pine wood, $\frac{7}{8}$ inch thick, with hardwood cleats dovetailed to allow contraction and expansion.

	Size, in Inches,	20 × 26	23 × 31	31 × 42
Each		\$ 2.00	\$ 2.70	\$ 4.50

Boards of any special style or size made to order at short notice

“TEC” DRAWING BOARDS—Continued



2210

2210. Drawing Board, pine wood, with hardwood ledges, bolted into the board to allow contraction and expansion, and grooves sunk in one-fourth the thickness of the board, thus allowing the narrow wooden strips to be still more effectually controlled by the hardwood ledges.

	Size, in Inches,			
	31 × 42	36 × 55	42 × 60	48 × 72
Each	\$5.00	\$8.00	\$10.00	\$14.50



2212

2212. Drawing Board, similar to 2210, but of extra fine quality, with screws passing through the ledges in oblong slots with metal bushings, which allow the screws to move when drawn by the contraction of the board. To make working edge perfectly smooth, a strip of hardwood is let into edge of board, allowing an easy movement of the T square.

	Size, in Inches,			
	23 × 21	31 × 42	36 × 55	42 × 60
Each	\$4.00	\$6.25	\$9.75	\$12.00

DETAIL BOARDS OR DRAWING-TABLE TOPS

These drawing boards are built up of narrow strips of soft, sound, clear, kiln-dried Michigan pine, carefully jointed and glued together, with the best quality glue. The boards are reenforced by hardwood cleats, which are secured to the back of the board by screws running in metal bushings.

2215.	36 × 48 × 1 inch, finished.....	each \$ 8.00
2215A.	36 × 54 × 1 inch, finished.....	each, 9.00
2215B.	36 × 60 × 1 inch, finished.....	each, 10.00
2215C.	36 × 72 × 1½ inches, finished.....	each, 11.50
2215D.	42 × 72 × 1½ inches, finished.....	each, 16.00
2215E.	42 × 84 × 1½ inches, finished.....	each, 20.00
2215F.	48 × 72 × 1½ inches, finished.....	each, 20.00
2215G.	48 × 84 × 1½ inches, finished.....	each, 22.00
2215H.	48 × 96 × 1½ inches, finished.....	each, 26.00
2215J.	48 × 108 × 1½ inches, finished.....	each, 32.00
2215K.	48 × 120 × 1½ inches, finished.....	each, 38.00
2215M.	54 × 120 × 1½ inches, finished.....	each, 44.00
2215P.	54 × 144 × 1½ inches, finished.....	each, 54.00

Sizes not mentioned in above list, or boards of special construction, price on application

THE "TEC" ADJUSTABLE DRAWING TABLE

A Combined Drawing Table and Easel for Home Study

Patented June 25, 1901

The "Tec" Adjustable Drawing Table combines in the drawing table simplicity, rigidity, and utility, with a result giving all the conveniences and advantages required in the field of home study. It has practically no bulk, and can be folded into a small space no longer than an atlas 2 feet long and 3 inches thick. When set up, however, it is a complete, adjustable, perfect drawing table, with a height of 4 feet and a width of over 2 feet.

Adjusted to any position of height or inclination, locks instantly, thus avoiding any disengaging of adjustment braces, as is the case in old, wobbly tables.

It is neat and attractive in appearance, is made of oak and hard-rolled steel, and may be used as a writing desk, reading table, or sewing table.



2230

2230. "Tec" Drawing Table and Easel.....each, \$5.00

THE "UTILITY" DRAWING STAND

Besides being very firm, it is the simplest table ever made. The board is the style of No. 2210, while the stand is hardwood, nicely finished. This stand can be raised or lowered and put at any angle by loosening the nut at the right, which allows the center brace to slide in the slots of the legs. The board is held to the stand by two wooden pins put through the cleats underneath the board. Can be quickly folded and put aside when not in use.



2255

- | | |
|--|---------------|
| 2255. Stand only | each, \$ 7.00 |
| 2256. Stand, with Drawing Board, 31×42 inches..... | each, 12.50 |
| 2257. Stand, with Drawing Board, 36×55 inches..... | each, 15.00 |

DRAWING TABLES

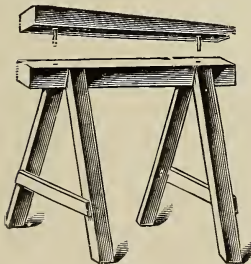
THE "LACKAWANNA"



2260

The "Lackawanna" is an adjustable, low-priced, double-column table, carrying a larger top; is made of oak, well finished, carries a pine top and has a vertical adjustment for raising and lowering from 30 to 42 inches. It tilts from a horizontal to a perpendicular position. Folds into small compass. Positive clamping devices. Can be fitted with attachments Nos. 4 and 5.

- 2260. Lackawanna, with top 30×42 inches.....each, \$10.00
- 2262. Lackawanna, with top 36×48 inches.....each, 14.00
- 2264. Lackawanna, with top 36×60 inches.....each, 20.00



2266

WOODEN TRESTLES FOR DRAWING BOARD

- 2265. Plain, 30 inches long.....per pair, \$5.00
- 2265A. Plain, 40 inches long.....per pair, 5.50
- 2266. Adjustable, 30 inches long....per pair, 5.50
- 2266A. Adjustable, 40 inches long...per pair, 6.00

METAL DRAWING TABLES

THE "SCRANTON"

All-metal drawing tables; combine strength, grace, and utility; are constructed of best quality iron, finished in black enamel. Furnished with tops as described under 2212.



2270

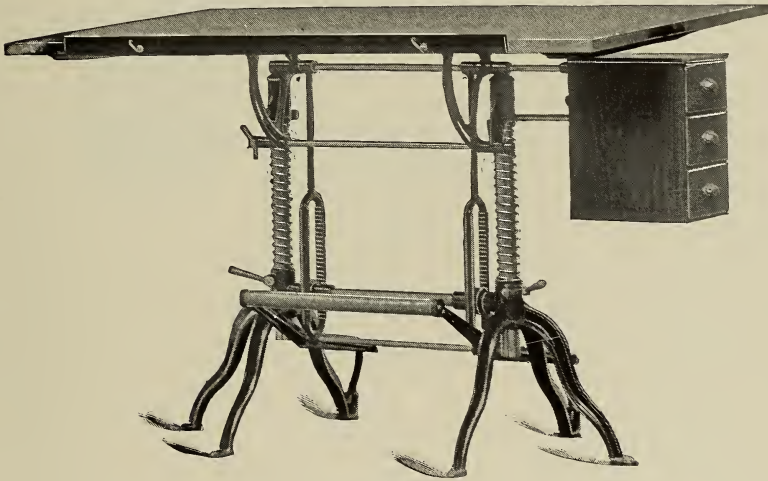
The "Scranton" is a rigid table of graceful design, and is easy of adjustment, having a tilting movement from horizontal to perpendicular, and can be adjusted in height from 30 to 45 inches, the greatest height of any table made. The castings are well ribbed and are finished with two coats of black enamel. The vertical adjustment is accomplished by a rack-and-pinion movement, operated by a crank, as shown in illustration.

- | | |
|--|---------------|
| 2270. The Scranton, without top..... | each, \$24.00 |
| 2270A. The Scranton, with top, 36×48 inches..... | each, 32.00 |
| 2270B. The Scranton, with top, 36×54 inches..... | each, 33.50 |
| 2270C. The Scranton, with top, 36×60 inches..... | each, 35.00 |
| 2270D. The Scranton, with top, 36×72 inches..... | each, 39.50 |
| 2270E. The Scranton, with top, 42×60 inches..... | each, 39.00 |
| 2270F. The Scranton, with top, 42×72 inches..... | each, 41.50 |
| 2270G. The Scranton, with top, 48×72 inches..... | each, 45.50 |

For description of attachments, see page 215.

METAL DRAWING TABLES

THE "NEW YORK"



2275

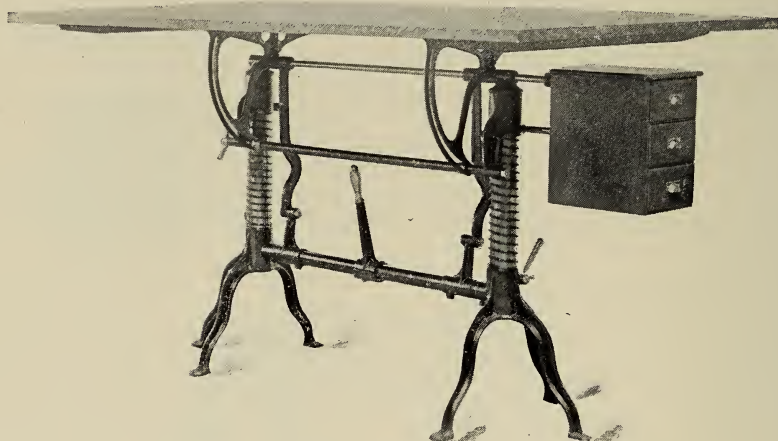
The "New York" has tilting and vertical adjustment, raising from 30 to 40 inches, operated by a rack and pinion and a foot lever, which can be used as a foot rest. This table has the tube and spring construction that prevents the table from dropping when clamps are released, and also assists the operator to raise the table top. All iron work baked enamel. Tops made of narrow strips from soft pine.

2275.	The "New York," without top.....	each, \$36.00
2275A.	The "New York," with top, 36×48 inches.....	each, 44.00
2275B.	The "New York," with top, 36×54 inches.....	each, 45.50
2275C.	The "New York," with top, 36×60 inches.....	each, 47.00
2275D.	The "New York," with top, 36×72 inches.....	each, 51.50
2275E.	The "New York," with top, 42×60 inches.....	each, 51.00
2275F.	The "New York," with top, 42×72 inches.....	each, 53.50
2275G.	The "New York," with top, 48×72 inches.....	each, 57.50
	Two-drawer cabinet	extra, 5.00
	Three-drawer cabinet	extra, 7.00

For other attachments, see page 215.

METAL DRAWING TABLES

THE "CHICAGO"



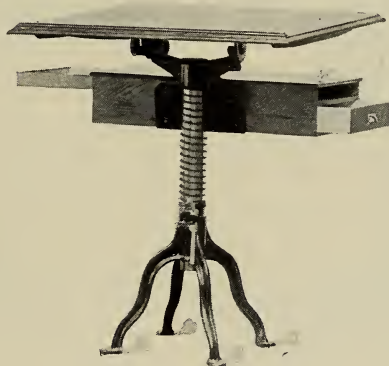
2280

The "Chicago" is a strong drawing table, heavy enough to carry the largest top. Has all adjustments, tilting to any angle or can be folded to economize room. It has also a vertical adjustment of from 32 to 42 inches. Brass tubes are encircled by oil-tempered springs that support the top when clamps are released, also assist operator to raise and lower top. The iron framework is spread for larger tops, so that the proportions of standards to top are always the same.

2280.	The "Chicago," without top.....	each, \$45.00
2280A.	The "Chicago," with top, 36×48 in. \$53.00; 48× 72 in.....	65.00
2280B.	The "Chicago," with top, 36×54 in. 54.00; 48× 84 in.....	67.00
2280C.	The "Chicago," with top, 36×60 in. 56.50; 48× 96 in.....	71.00
2280D.	The "Chicago," with top, 36×72 in. 59.00; 48×108 in.....	77.00
2280E.	The "Chicago," with top, 42×60 in. 59.00; 48×120 in.....	83.00
2280F.	The "Chicago," with top, 42×72 in. 61.00; 54×120 in.....	89.00
2280G.	The "Chicago," with top, 42×84 in. 65.00; 54×144 in.....	99.00
2280H.	The "Chicago," with top, 42×96 in.....	67.00
	Foot-rest	extra, 2.00
	Two-drawer cabinets	extra, 5.00
	Three-drawer cabinets	extra, 7.00

METAL DRAWING TABLES

THE "PITTSBURG"

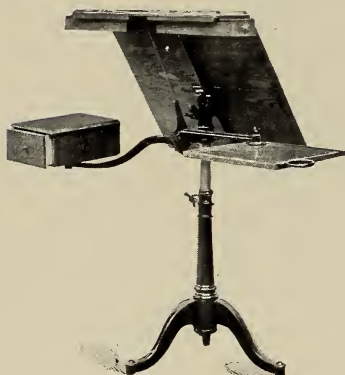


2284

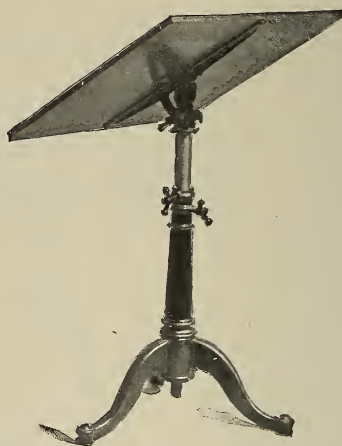
The "Pittsburg" is a single-column table having device for raising and lowering top. It can also be inclined from a horizontal to a perpendicular position. The spring that encircles the brass tube assists the operator in raising the top, and is a safety device as well, keeping the top in place when the clamps are released. One of the features of this table is the large top (30×42) that it carries. The legs supporting the table are not in the way of the draftsman when at work. The top can be folded and the table set aside when not in use.

2284. The "Pittsburg," with white-pine top 30×42 inches; vertical adjustment, 30 to 42 inches; weight, crated, 150 pounds.
 Each\$24.00
- 2285A. The "Pittsburg," with attachment No. 3.....each, 32.00

METAL DRAWING TABLES—Continued



2290A
The "Philadelphia"



2292
The "Boston"

The "Philadelphia" has rack-and-pinion adjustment; tilting, revolving, raising, and lowering movements; black-enameled ironwork; adjustment, 32 to 42 inches; hardwood top, 24×26 inches; white-pine top, 24×32 inches.

2290.	The "Philadelphia," without attachments.....	each, \$15.00
2290A.	The "Philadelphia," with attachment No. 4.....	each, 19.00
2290B.	The "Philadelphia," with attachment No. 5.....	each, 18.00
2290C.	The "Philadelphia," with attachment No. 6.....	each, 18.00
2290D.	The "Philadelphia," with attachment No. 6, with two dwrs.....	each, 20.00

The "Boston" has all adjustments; black-enameled ironwork; woodwork of golden oak; hardwood top, 24×26 inches; white-pine top, 24×32 inches; vertical adjustment, 30 to 42 inches.

2292.	The "Boston," without attachments	each, \$14.00
2292A.	The "Boston," with attachment No. 4.....	each, 18.00
2292B.	The "Boston," with attachment No. 5.....	each, 17.00
2292C.	The "Boston," with attachment No. 6.....	each, 17.00
2292D.	The "Boston," with attachment No. 6, with two drawers.....	each, 19.00

ATTACHMENTS FOR DRAWING TABLES



Attachment No. 2, Closed



Attachment No. 4

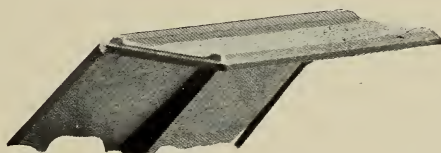
Attachment No. 2 is a tray, 12×14 inches, used in combination with a drawer $7\frac{1}{2} \times 3\frac{1}{2}$ inches. The tray can be folded under the table top when not in use, and is fitted with water-glass holder. .each, \$5.00

Attachment No. 4 is a drawer $7\frac{1}{2} \times 10 \times 3\frac{1}{2}$ inches, with a tray top on an iron arm, which can be swung under the top.....each, 4.00



Attachment No. 5

Attachment No. 5 is a tray on an iron arm, folded under top, fitted with water-glass holder each, \$3.00



Attachment No. 6

Attachment No. 6 is an instrument shelf at top of board, always remains horizontal, no matter at what angle top is tilted, and can only be used in connection with hardwood tops.

Instrument Drawer, $4 \times 12\frac{1}{2}$ inches.....each, \$3.00

One-Drawer Cabinet, drawer $7\frac{1}{2} \times 12\frac{1}{2} \times 3\frac{1}{2}$ inches.....each, 2.50

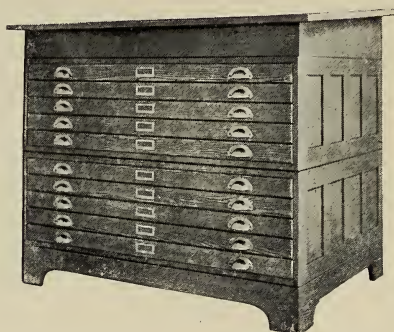
Two-Drawer Cabinet, each drawer $7\frac{1}{2} \times 12\frac{1}{2} \times 3\frac{1}{2}$ inches.each, 5.00

Three-Drawer Cabinet, each drawer $7\frac{1}{2} \times 12\frac{1}{2} \times 3\frac{1}{2}$ in....each, 7.00

All drawers in cabinets made long enough to hold 12-inch scale and deep enough for drawing-ink bottle.

“TEC” COMBINATION DRAWING TABLE AND FILING CABINETS

Two Sections; Drafting-Table Top and Cut-Out Base

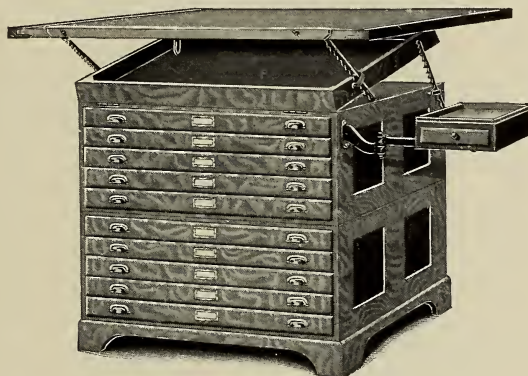


2295

The Drafting-Table Top is of oak to match sections, with very best white-pine Drawing Board $38\frac{1}{2} \times 49\frac{1}{2}$ inches. The front of cap on which this board rests and to which it is fastened is 4 inches high and rear is 7 inches high. The height from floor of the Combination Drafting Table is in front 40 inches, rear 43 inches.

2295.	Section of Five Drawers	each, \$26.00
2295A.	Cap	each, 9.00
2295B.	Drawer Base	each, 13.00
2295C.	Cut-Out Base	each, 6.00
2295D.	Plain Base	each, 6.00
2295E.	Drafting-Table Top (including board)	each, 11.00

“TEC” COMBINATION DRAWING TABLE AND FILING CABINETS—Continued



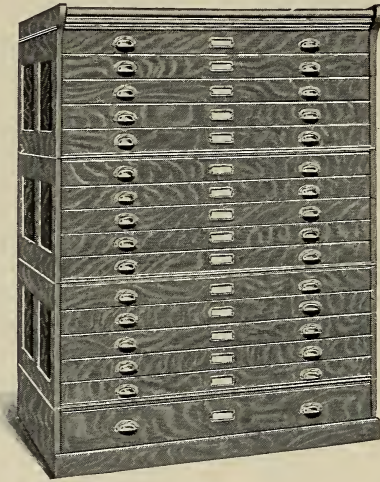
2296

This combination is composed of two Filing Sections and a Base of sufficient height, so as to give foot space, to stand up close. The Top is so arranged that it can be made to project over the front from 6 to 8 inches, can be raised and lowered from 35 to 43 inches on the level, and can be tilted to any angle. These parts are securely fastened together so as to make a very rigid outfit. This cabinet has ten drawers; $32 \times 42\frac{1}{2} \times 2\frac{1}{8}$ inches deep, inside measurement.

2296.	With top, 37×50 inches	each, \$76.00
2296A.	With top, 37×60 inches.....	each, 83.00
2296B.	With top, 40×72 inches.....	each, 92.00
2296C.	With flat top, 37×50 inches.....	each, 67.00
2296D.	With flat top, 37×60 inches	each, 72.00
2296E.	With flat top, 40×72 inches	each, 77.00

“TEC” SECTIONAL FILING CASE

Three Sections, Cap and Drawer Base



2298

Made of well-seasoned plain oak, golden-oak finish, cover to drawers at back to prevent drawing curling up; copper-bronze drawer pulls and label holders. The “TEC” Sectional Filing Cases are made in sections of five drawers of uniform size so that any number of sections procured at different times will fit perfectly. The finish is the same so that in ordering cases they will always be the same color. Each section is composed of five drawers, $2\frac{1}{8}$ inches deep, 32 inches wide, $42\frac{1}{2}$ inches long, and the sections are $14\frac{1}{4}$ inches high, outside measure. The Cap is molded and has a neat finish. It is $3\frac{1}{2}$ inches high.

There are three styles of bases—plain base, $3\frac{1}{2}$ inches high; cut-out base, 6 inches high; this base is cut out in front and sides, so that the cases may be used with a Drawing-Board Top, allowing the draftsman to stand close to the board. Drawer base, has a drawer $5\frac{1}{2}$ inches deep and $9\frac{1}{2}$ inches high, outside measurement.

2298. Section of Five Drawers.....	each, \$32.00
2298A. Cap	each, 11.50
2298B. Drawer Base	each, 14.00
2298C. Cut-Out Base	each, 8.00
2298D. Plain Base	each, 4.50

“TEC”

WATER COLORS

AND

ART SUPPLIES

A complete assortment of the finest obtainable colors in Tubes and Half Pans. Also put up in Boxes for Students' Use.

These boxes are handsome in appearance, durable in construction, but are provided with features quite unknown in the ordinary boxes offered the young artist.

All "Tec" Boxes are equipped with flaps and rings such as those used by professional artists.

Colors are guaranteed true—and suited to the highest grade art work.

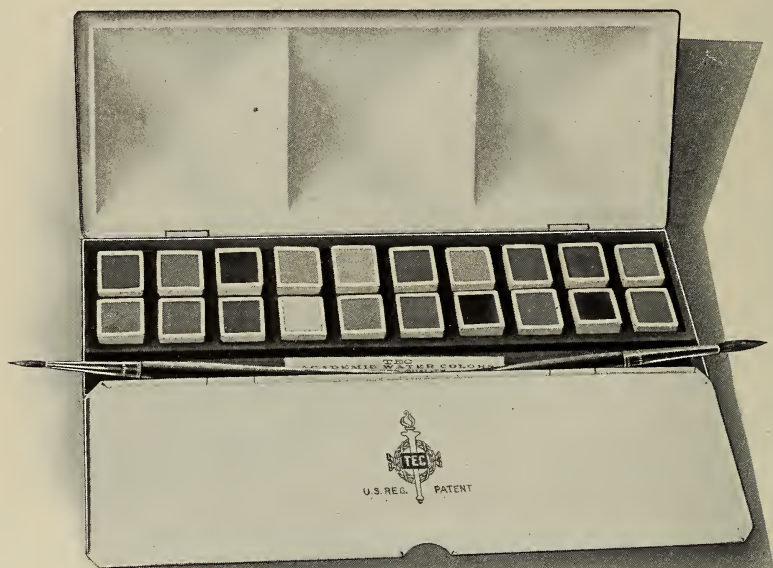


TECHNICAL SUPPLY CO.
Scranton, Pa.



"TEC" WATER COLOR BOXES

Fitted With "Tec" Students' Water Colors



2302

2300. Fine Japanned Tin Box with flaps and rings, $7\frac{1}{2} \times 3$ inches, containing 12 half pans and two brushes.....\$1.25
2301. Fine Japanned Tin Box, with flap and rings, $7\frac{1}{2} \times 3$ inches, containing 16 half pans and two brushes.....each, 1.60
2302. Fine Japanned Tin Box, with flap and rings, $8\frac{1}{2} \times 3$ inches, containing 20 half pans and two brushes.....each, 2.10

1 Alizarin Crimson	8 Chinese White	15 Vermillion
2 New Blue	9 Ocher	16 Rose Madder
3 New Green	10 Sepia	17 Emerald Green
4 Burnt Sienna	11 Prussian Blue	18 Raw Sienna
5 Gamboge	12 Ivory Black	19 Indigo
6 Orange	13 Chrome Yellow, Light	20 Vandyke Brown
7 Violet	14 Light Red	

These Colors Will Not Harden



“TEC” WATER COLOR BOXES

Fitted With “Tec” Students’ Water Colors in Tubes



2307

LARGE-TUBE BOXES

2305. Fine Japanned Tin Box, with flap and rings, 6×3 inches, containing six large tubes and quill brush.....each, \$1.10
 2306. Fine Japanned Tin Box, with flap and rings, $8\frac{1}{2} \times 3$ inches, containing twelve large tubes and No. 7 brush.....each, 1.90
 2307. Extra Fine Quality Japanned Tin Box, with large and small divisions in cover, $10 \times 3\frac{1}{2}$ inches, containing twelve large tubes and No. 7 brush each, 2.10

SMALL-TUBE BOXES

2310. Containing eight small tubes and quill brush, 5×3 inches...each, .90
 2311. Containing twelve small tubes and quill brush, 7×3 inches...each, 1.20
 2312. Containing sixteen small tubes and No. 7 brush, $8\frac{1}{2} \times 3$ in....each, 1.85

LIST OF COLORS IN “TEC” WATER COLOR BOXES

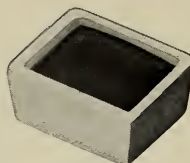
- | | | |
|--------------------|-------------------------|------------------|
| 1 Alizarin Crimson | 8 Chinese White | 15 Vermilion |
| 2 New Blue | 9 Ocher | 16 Rose Madder |
| 3 New Green | 10 Sepia | 17 Emerald Green |
| 4 Burnt Sienna | 11 Prussian Blue | 18 Raw Sienna |
| 5 Gamboge | 12 Ivory Black | 19 Indigo |
| 6 Orange | 13 Chrome Yellow, Light | 20 Vandyke Brown |
| 7 Violet | 14 Light Red | |

A box with six colors contains the first six colors of this list, a box with ten colors the first ten colors of this list and so on.

“TEC” STUDENTS’ WATER COLORS



2315



2316

These colors are far superior to the cheap aniline productions often supplied by other makers, and are possessed of good strength and surprising brilliancy.

LIST OF “TEC” STUDENTS’ WATER COLORS

White	Green
Chinese White	Hooker's Green
	Emerald Green
Yellow	Green Bice
Gamboge	Olive Green
Naples Yellow	New Green
Chrome Yellow, Pale	Black
Chrome Yellow, Middle	Neutral Tint
Chrome Yellow, Deep	Ivory Black
Chrome Yellow, Orange	Lampblack
Yellow Ocher	Charcoal Gray
Raw Sienna	Blue
Red	New Blue
Rose Madder	Cobalt Blue
Scarlet Lake	Ultramarine
Purple Madder	Prussian Blue
Crimson Lake	Indigo
Carmin	Violet
Alizarin Crimson	Brown
Vermilion	Burnt Sienna
Light Red	Brown Pink
Venetian Red	Raw Umber
Brown Madder	Burnt Umber
Indian Red	Vandyke Brown
	Sepia

2314. “Tec” Students’ Water Colors in small tubes.....each,	\$.06
2315. “Tec” Students’ Water Colors in large tubes.....each,	.10
2316. “Tec” Students’ Water Colors in half pans.....each,	.05

WATER COLORS

WINDSOR & NEWTON'S MOIST WATER COLORS



Half Pan



Whole Pan

- 2320.
1. Antwerp Blue
 3. Blue Black
 6. Brown Black
 8. Burnt Sienna
 9. Burnt Umber
 10. Chinese White
 11. Chrome Yellow
 14. Deep Chrome
 16. Emerald Green
 18. Gamboge
 19. Hooker's Green, No. 1
 20. Hooker's Green, No. 2
 21. Indigo
 22. Indian Red
 23. Italian Pink
 24. Ivory Black
 26. Lamp Black

27. Light Red
28. Naples Yellow
29. Neutral Tint
30. New Blue
31. Olive Green
32. Orange Chrome
33. Payne's Gray
34. Prussian Blue
35. Prussian Green
36. Raw Sienna
37. Raw Umber
41. Sap Green
42. Terre Verte
43. Vandyke Brown
44. Venetian Red
45. Vermilion
48. Yellow Ocher

Whole Pans per dozen, \$3.00
 Half Pans per dozen, 1.75

- 2322.
50. Brown Madder
 52. Crimson Lake
 59. Scarlet Lake

61. Sepia
62. Warm Sepia
66. Purple Lake

Whole Pans per dozen, \$6.00
 Half Pans per dozen, 3.00

- 2324.
100. Cadmium Yellow
 102. Cadmium Orange
 104. Cobalt Blue
 106. French Blue

108. Indian Yellow
110. Lemon Yellow
112. Pure Scarlet

Whole Pans per dozen, \$7.50
 Half Pans per dozen, 3.75

- 2326.
150. Carmine
 160. Rose Madder

158. Purple Madder

Whole Pans per dozen, \$12.75
 Half Pans per dozen, 6.40

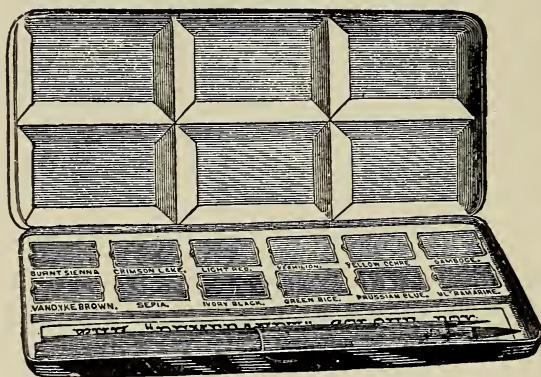


2328

WINSOR & NEWTON'S LIQUID COLORS

- | | |
|---------------------------------------|-------------------|
| 2328. Winsor & Newton's Chinese White | |
| ..... | per bottle, \$.30 |
| | |
| 2329. Winsor & Newton's Gold Ink | |
| ..... | per bottle, .30 |
| | |
| 2330. Winsor & Newton's Oxgall | |
| ..... | per bottle, .30 |

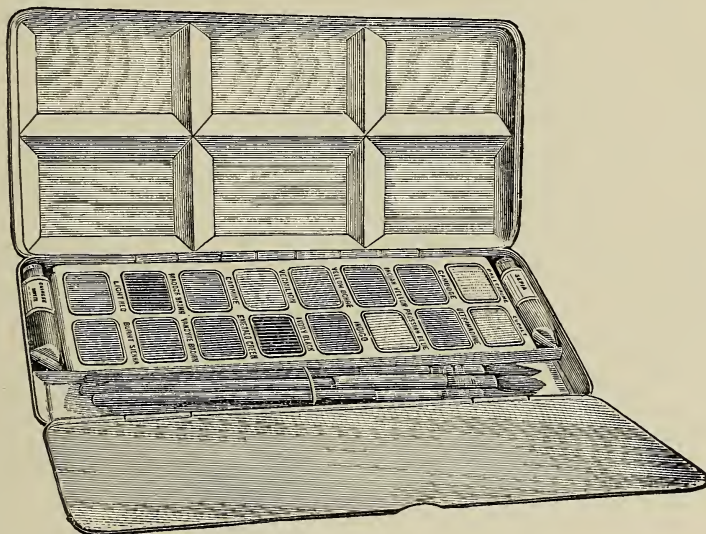
EMPTY JAPANNED TIN BOXES For Moist Colors in Pans



2340

- | | |
|-------------------------------------|--------------|
| 2340. For 6 Whole or 12 Half Pans | each, \$.80 |
| 2340A. For 8 Whole or 16 Half Pans | each, .90 |
| 2340B. For 10 Whole or 20 Half Pans | each, 1.05 |
| 2340C. For 12 Whole or 24 Half Pans | each, 1.15 |
| 2340D. For 16 Whole or 32 Half Pans | each, 1.30 |
| 2340E. For 18 Whole or 36 Half Pans | each, 1.40 |
| 2340F. For 24 Whole or 48 Half Pans | each, 1.60 |

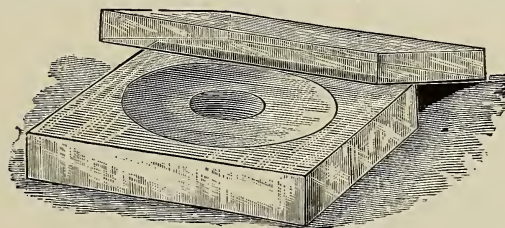
WATER COLOR BOXES



2342

2342. The "Murillo" Water Color Box, japanned tin, $7\frac{1}{2} \times 3\frac{1}{4}$ inches, with inside lid, sixteen moist colors in metal pans, one tube each of Sepia and Chinese White, three brushes.....each, \$1.00

INK SLABS AND COLOR SAUCERS



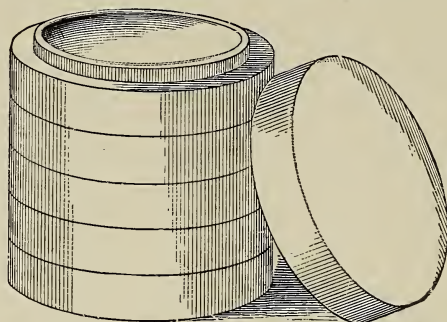
2346

Slate Ink Slab 2346 has a heavy Plate-Glass Cover, with ground edges. The Plate-Glass Cover fits air-tight. The best for rubbing Chinese ink.

2346. Slate Ink Slab, $2\frac{3}{4}$ inches square, with improved well.....each, \$.50

2347. Slate Ink Slab, $3\frac{1}{2}$ inches square, with improved well.....each, .55

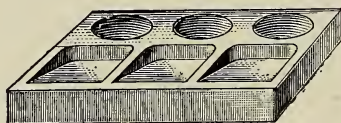
PORCELAIN CABINET SAUCERS



2348

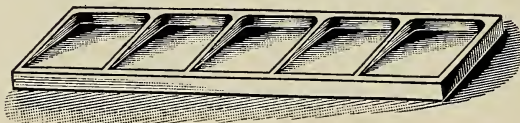
2348. Nest of Cabinet Saucers, six in set, $2\frac{3}{8}$ inches.....each, \$.55
 2348A. Nest of Cabinet Saucers, six in set, $2\frac{5}{8}$ inches.....each, .65
 2348B. Nest of Cabinet Saucers, six in set, $3\frac{1}{4}$ inches.....each, .75
 2348C. Nest of Cabinet Saucers, six in set, $3\frac{3}{4}$ inches.....each, 1.05
 A nest of six consists of five saucers and cover.

COLOR DISHES AND GLASSES, PORCELAIN



2350

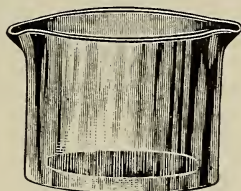
2350. Color Dish, three wells and three slopes, $2\frac{1}{2} \times 4$ inches.....each, \$.25
 2352. Color Dish, five wells and five slopes, $4 \times 7\frac{1}{2}$ inches.....each, .60



2354

2354. Color Dish, five divisions, $3\frac{1}{2} \times 7\frac{3}{4}$ inches.....each, \$.40
 2356. Color Dish, six divisions, $3\frac{1}{2} \times 7\frac{3}{4}$ inches.....each, .40
 2358. Color Dish, eight divisions, $6 \times 7\frac{3}{8}$ inches.....each, .60

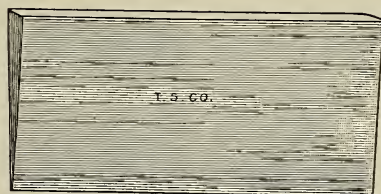
ARTISTS' WATER GLASSES



2360

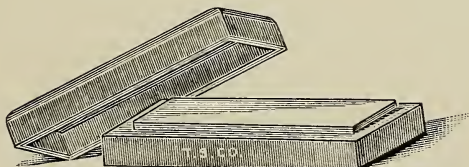
2360. Artists' Water Glass, 2 $\frac{3}{8}$ inches diameter.....each, \$.15
 2362. Artists' Water Glass, 3 $\frac{1}{4}$ inches diameter.....each, .25
 2364. Artists' Water Glass, 3 $\frac{3}{4}$ inches diameter.....each, .35

ARKANSAS OILSTONES



2370

3270. Arkansas Oilstone, wedge-shaped slip.....each, \$. 30
 2371. Arkansas Oilstone, wedge about 1 $\frac{1}{4}$ x 3 inches.....each, .50
 2372. Arkansas Oilstone, wedge about 1 $\frac{1}{4}$ x 4 $\frac{3}{8}$ inches.....each, .90



2373

2373. Arkansas Oilstone, in case, with cover, 3 inches.....each, \$.90
 2374. Arkansas Oilstone, in case, with cover, 5 inches.....each, 2.00

BISSELL'S SATIN FINISH SHOW-CARD COLORS



2379B

Bissell's Satin Finish Show-Card Colors have all the requirements to produce the most beautiful effects in show cards, containing all the adhesives for binder, etc., and ready for instant use. They flow from the brush with a smoothness that allows of very rapid work, but with "just the right pull."

The great annoyance of the brush splitting or dividing on the end has been overcome. Bissell's Colors keep the ends of the brushes in perfect condition, which is very essential in making neat, graceful, and uniform letters.

Bissell's Colors are ground to the utmost fineness with specially designed machinery and are prepared for men who appreciate the requirements necessary to produce the best results.

Bissell's Colors are put up in air-tight glass jars—in four convenient sizes.

SATIN FINISH

Black, White, Light Red, Dark Red, Light Green, Dark Green, Turquoise Blue, Ultramarine Blue, Yellow, Orange, Brown, Lavender.

2-Ounce Bottles	each, \$.15
½-Pint Bottles	each, .40
Pint Bottles	each, .75
Quart Bottles	each, 1.50

GLOSS BLACK

Extra Quality

2-Ounce Bottles	each, \$.10
½-Pint Bottles	each, .35
Pint Bottles	each, .60
Quart Bottles	each, 1.00

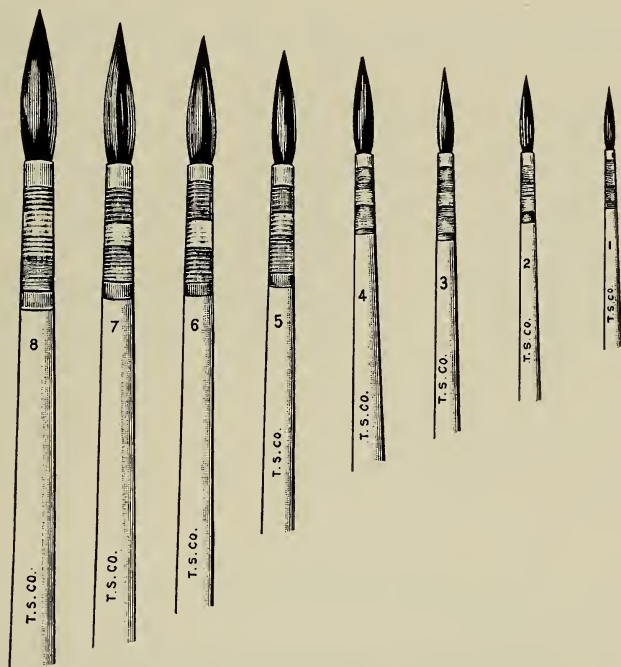
Packed in fiber boxes of one dozen.



“TEC” BRUSHES

Only Genuine and Selected Camel's Hair and Red Sable Used in “Tec”
Brushes

Complete Catalog of Brushes on Request



2400-2401

2400. Camel's Hair in Quills.

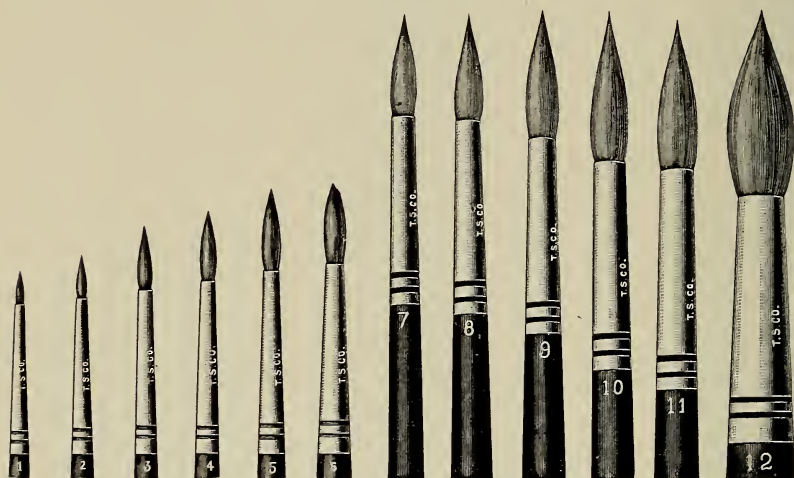
	No.	1	2	3	4	5	6	7	8
Each		\$.05	\$.05	\$.06	\$.06	\$.08	\$.08	\$.10	\$.10

2401. Red Sable in Quills.

	No.	1	2	3	4	5	6	7	8
Each		\$.12	\$.15	\$.20	\$.25	\$.30	\$.35	\$.50	\$.60

“TEC” BRUSHES—Continued

Illustrations Two-Thirds Size



2405

2405. Camel's Hair, in Tin.

	No. 1	2	3	4	5	6	7	8	9	10	11	12
Each	\$.06	\$.08	\$.08	\$.10	\$.10	\$.12	\$.18	\$.20	\$.20	\$.25	\$.30	\$.35

ATOMIZER



2406

2406. Atomizer, japanned tin, folding.....each, \$.15

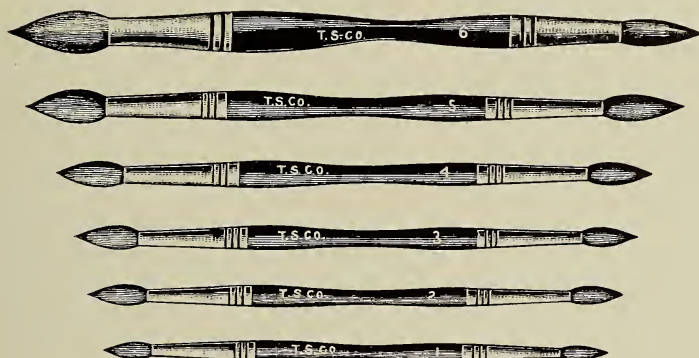
FIXATIF

2407. Colorless Fixatif, for Crayon or Charcoal....per 2-ounce bottle, \$.20

2407A. Colorless Fixatif, for Crayon or Charcoal.....per pint bottle, 1.00



“TEC” BRUSHES—Continued
Of Selected Genuine Camel’s Hair and Red Sable
 Illustrations less than one-half size

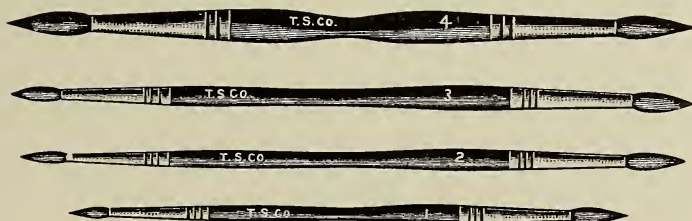


2410

2410. Double-Pointed Camel’s Hair Brushes, in Tin.

	No.	1	2	3	4	5	6
Each		\$.30	\$.35	\$.40	\$.50	\$.60	\$.70

Illustrations one-half size



2412

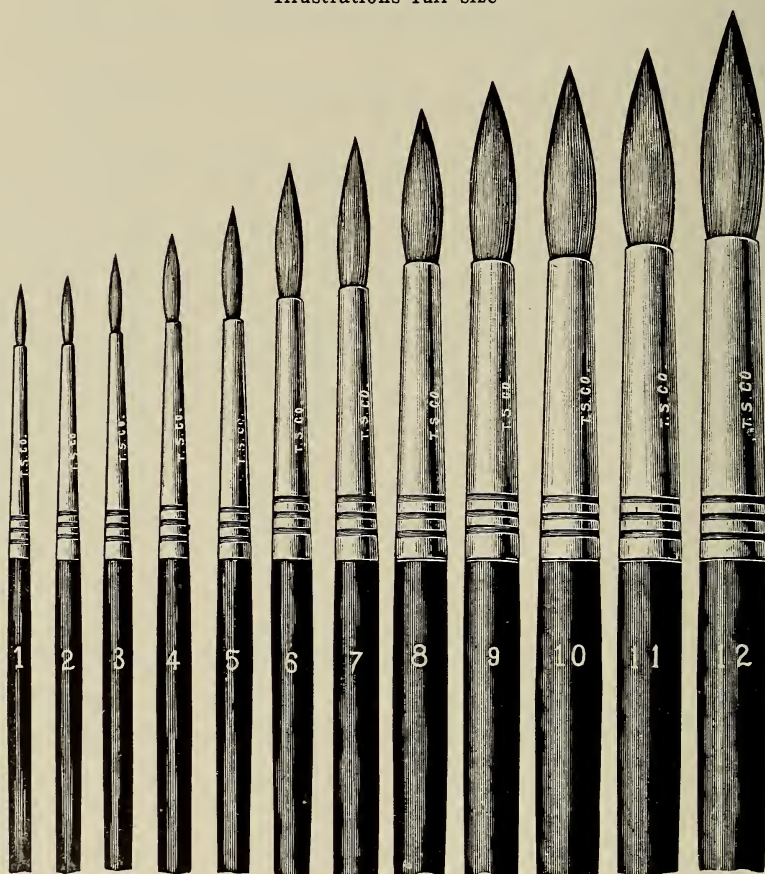
2412. Double-Pointed Red-Sable Brushes in Albata.

	No.	1	2	3	4
Each		\$.60	\$.90	\$ 1.50	\$ 2.40

“TEC” BRUSHES—Continued

In Albata, with Handle

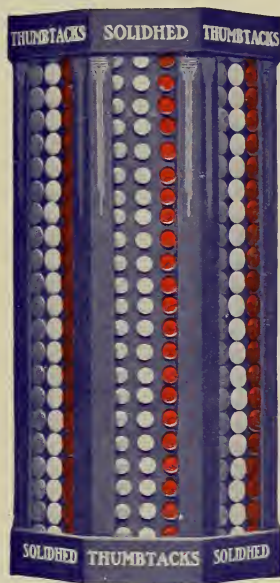
Illustrations full size



2420

2420. Red-Sable Brushes, in Albata, with Handle.

No.	1	2	3	4	5	6	7	8	9	10	11	12
Each.....	\$.16	\$.18	\$.25	\$.30	\$.40	\$.55	\$.70	\$.90	\$1.20.	\$1.50	\$2.00	\$2.50



**"SOLIDHED" DISPLAY No. 1
EASEL**

7 in. wide, 2 in. deep, 11 in. high

Contains three gross of brass, one gross $\frac{3}{8}$ in. flat top, one gross $\frac{1}{2}$ in. bevel top, and one gross $\frac{1}{2}$ in. flat top.

RETAIL PRICE OF ALL, 10c
PER DOZEN.

CONTENTS SELL FOR \$3.60.

**"SOLIDHED" DISPLAY No. 4
REVOLVING OCTAGON**

8 in. x 8 in. base, 16 in. high

Contains eight gross assorted bright colors, German silver, brass and steel; three gross colors, one gross $\frac{1}{2}$ in. German silver, one gross $\frac{1}{2}$ in. brass, flat; one gross $\frac{1}{2}$ in. brass, bevel; one gross $\frac{1}{2}$ in. brass, flat; one gross $\frac{3}{8}$ in. steel.

RETAIL PRICES, 5 to 20c PER
DOZEN.

CONTENTS SELL FOR \$14.40.

NET PRICES TO DEALERS ON APPLICATION

IT'S THE "SOLIDHED" DISPLAY THAT SELLS TACKS FOR THE DEALER

"SOLIDHED" NUMBERED TACKS

Raised figures, $\frac{1}{2}$ in. brass tops. For numbering window screens, shutters, drawers, compartments, and numbering systems in general.

Packed 25 consecutive numbers on a block 1 to 150. **Per Block, 25c.**





"TEC" THUMBTACKS

Pins Firmly Embedded in Head; Warranted Not to Push Through;
Rotary Finished

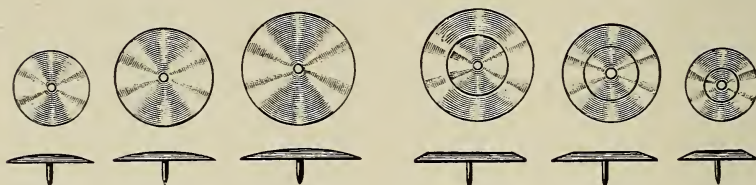


2580-2585

	Per Gross	Per Dozen
2580. Brass Round Head, $\frac{3}{8}$ inch diameter.....	\$1.50	\$.15
2581. Brass Round Head, $\frac{1}{2}$ inch diameter.....	2.00	.20
2582. Brass Round Head, $\frac{5}{8}$ inch diameter.....	3.00	.30
2583. German-Silver Round Head, $\frac{3}{8}$ inch diameter.....	2.00	.20
2584. German-Silver Round Head, $\frac{1}{2}$ inch diameter.....	2.50	.25
2585. German-Silver Round Head, $\frac{5}{8}$ inch diameter.....	3.50	.35

FINEST GERMAN SILVER

Pins screwed in and riveted



2590-2595

2590. German-Silver Round Head, $\frac{3}{8}$ inch diameter.....	per dozen, \$	.45
2591. German-Silver Round Head, $\frac{1}{2}$ inch diameter.....	per dozen, \$	.60
2592. German-Silver Round Head, $\frac{5}{8}$ inch diameter.....	per dozen, \$	.75
2593. German-Silver Beveled Head, $\frac{3}{8}$ inch diameter.....	per dozen, \$	.45
2594. German-Silver Beveled Head, $\frac{1}{2}$ inch diameter.....	per dozen, \$	.60
2595. German-Silver Beveled Head, $\frac{5}{8}$ inch diameter.....	per dozen, \$	.75



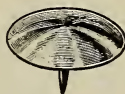
"SOLIDHED" STEEL THUMBTACKS



2600



2601



2602

In boxes of 100 and cartons of ten boxes, or 1,000.

With strong steel head; pins warranted not to break through; very durable and highly finished.

	Per 1,000	Per 100	Per Doz.
2600. Round Heads, $\frac{3}{8}$ inch diameter.....	\$4.00	\$4.00	\$0.06
2601. Round Heads, $\frac{7}{16}$ inch diameter.....	5.00	.50	.08
2602. Round Heads, $\frac{1}{2}$ inch diameter.....	6.00	.60	.10

STAMPED STEEL TACKS

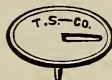
Of One Piece of Steel. Cheapest Tack Made



2610



2611



2612

	Per 100	Per Doz.
2610. Flat Heads, $\frac{5}{16}$ inch diameter.....	\$4.00	\$0.08
2611. Flat Heads, $\frac{3}{8}$ inch diameter.....	.50	.10
2612. Flat Heads, $\frac{1}{2}$ inch diameter.....	.65	.12

TACK LIFTER



2615

2615. Tack Lifter and Paper Knife, nickel plated.....each, \$.25

HORN CENTERS



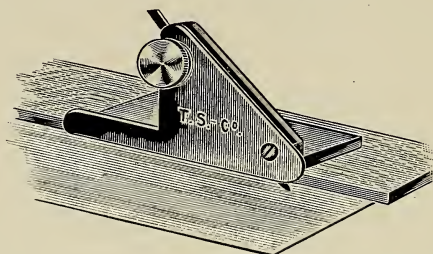
2618



2620

2618. Horn Center, plain, $\frac{1}{2}$ inch diameter.....each, \$.15
2620. Horn Center, plain, with German-silver rim, $\frac{3}{4}$ inch diameter.
 Each 50

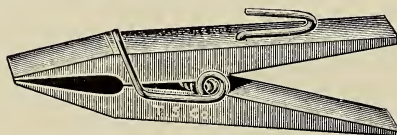
PAPER CUTTERS



2625

2625. Paper Cutter, brass.....each, \$.50
2626. Paper Cutter, nickel plated each, .65

BLUEPRINT CLIPS



2627

2627. Spring Clips for hanging prints to dry.....per dozen, \$.25

“IDEAL” BLUEPRINT CLIP



2627A

2627A. Metal clip for fastening blueprints to line for drying. Simple, practical, and labor saving. Drop Clip over the line, then push print between oblong wire holder and free end of clip. It will hold the print securely and permit removal without touching the clip or line. A slight lifting of the print releases it....per dozen, \$.75

“TEC” PHOTO PASTE

A superior adhesive manufactured especially for artists and draftsmen. Will not cake nor harden, pleasant odor, pure white in color. Blueprints mounted with “Tec” Paste will **not** discolor.

2631.	“Tec” Photo Paste.....per	2-ounce jar, \$	.10
2631A.	“Tec” Photo Paste in Tubes.....per	2-ounce tube,	.10
2632.	“Tec” Photo Paste.....per	4-ounce jar,	.15
2633.	“Tec” Photo Paste.....per	8-ounce jar,	.30
2634.	“Tec” Photo Paste.....per	16-ounce jar,	.60
2635.	“Tec” Photo Paste.....per	32-ounce jar,	1.00



Swan Pencils

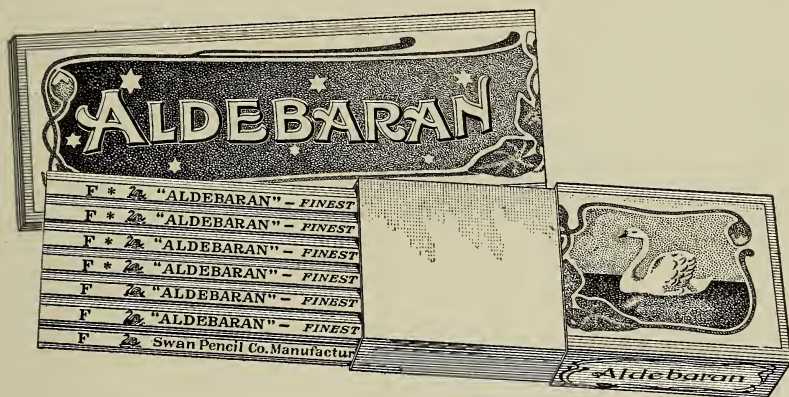
We are American distributors for both the Golden Swan and the Aldebaran Drawing Pencils made by the Swan Pencil Company, of Bavaria. These pencils are recognized among professional men as possessing every feature of excellence necessary in a high-grade pencil.

Only the finest graphite is used in their manufacture. This graphite is compressed with scientific accuracy and is guaranteed free from grit and other extraneous matter. In fact, the entire pencil is constructed with only one end in view—Unquestionable Quality.

The complete line has not been included. There are some numbers for which the demand is very slight. These numbers can, however, be supplied on reasonably short notice.

For extremely long wear and uniformity in texture, color, and strength we ask a careful inspection of Swan Copying Pencils. The fact that they retain their points under extraordinary wear should commend them wherever quality and economy are essentials of great importance.

ALDEBARAN DRAWING PENCILS



The lead contained in the Aldebaran Pencils presents to an extraordinary degree those qualities essential to the highest type of Drawing Pencils and warranted of finest quality graphite—free from grit, perfect in smoothness of texture, and of great durability.

Furnished in 16 degrees, accurately graded.

6 B {	Extra soft and very black thick lead for large bold drawing	H B {	
		F }	= 3 Medium hard and black
5 B	Extra soft and very black	2 H {	= 4 Hard
		3 H {	
		4 H }	= 5 Very hard
4 B {		5 H {	
3 B }	= 1 Very soft and very black	6 H }	= 6 Extra hard
2 B {		7 H {	
B }	= 2 Soft and black	8 H }	Hardest

No. 9000. Aldebaran Drawing Pencils, hexagon, yellow polish,
gold lettering, 6B to 8H, per gross. \$12.00



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



GOLDEN SWAN DRAWING PENCILS

No. 9008. Aldebaran and Golden Swan are the finest pencils made. Owing to the special process of manufacture the lead assumes a highly compressed form, which secures for it remarkable lasting qualities, thus rendering the Golden Swan and Aldebaran not only the best but the cheapest pencils to use.

Made in 16 degrees: 6B—5B—4B—3B
2B—B—HB—F—H—2H—3H—4H
5H—6H—7H—8H



No. 9020. Swan Pencil, Hexagon, Yellow Polish, Gold Stamp, White Tip. Gross.....\$15.00



No. 9008. Golden Swan Yellow Polish, Gold Stamped Drawing Pencil. Gross.....\$12.00



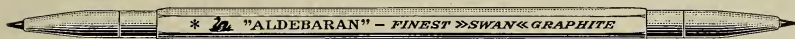
No. 9021. Swan Pencil, Hexagon, Yellow Polish, Gold Stamp, White Tip. Gross.....\$15.00



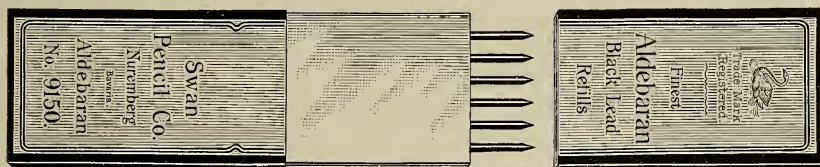
ARTISTS' PENCILS WITH MOVABLE LEADS



- No. 9120. Swan Artists' Pencil Holders. Hexagon, Yellow Polish, Gold Stamp with Ivory Tip. Graded 4B to 8H. Dozen..... \$3.00



- No. 9121. Swan Artists' Pencil Holders, with double ends. Yellow Polish with Gold Stamp. Graded F and 2H. Dozen..... \$4.00



- No. 9150. Leads for 9120, $5\frac{1}{4}$ inches long; packed 6 in box. Dozen..... \$5.00
 No. 9152. Same as 9150, 3 inches long. Leads for 9121, packed 6 in box, dozen boxes..... 4.00

SWAN LUMBER CRAYONS

Hexagon



The use of these crayons is not confined to the lumber industry. They are used by railway and steamship companies; foundries and textile mills; shipping departments, warehouses, nurseries, packers, and others.

- No. 9750. Blue Lumber Crayon, Hexagon. Gross \$7.00
 No. 9752. Yellow Lumber Crayon, Hexagon. Gross 7.00
 No. 9754. Black Lumber Crayon, Hexagon. Gross 7.00
 No. 9756. Green Lumber Crayon, Hexagon. Gross..... 7.00
 No. 9758. Red Lumber Crayon, Hexagon. Gross..... 7.00

SWAN POCKET PENCILS

- No. 9409. Nickeled Pocket Pencil—Round—with pencil—yellow polish. Dozen \$2.50



No. 2333. Pocket Pencil—Hexagon—with point protector and metal tip. Gross..... \$7.50



No. 9317. Nickeled Pocket Pencil Holder, reversible, flat, with pencil, yellow polish. Dozen..... \$2.25



No. 9201. Swan Pocket Pencil—Hexagon—Yellow Polish, Gold Stamp—with point protector and rubber tip. Gross... \$12.50



No. 2334. Pocket Pencil—Hexagon—with point protectors and metal tip. Gross..... \$6.00



No. 9200. Swan Pocket Pencil—Hexagon—Yellow Polish, Gold Stamp—with point protector. Gross \$12.00



No. 2341. Nickeled Pocket Pencil, flat, with pencil. Dozen \$2.00

SWAN POCKET PENCILS—Continued



No. 9321. Nickered Pocket Pencil Holder, flat, reversible, with pencil, yellow finish. Dozen..... \$2.25



- No. 9076. Aldebaran Half-Length Pencils Round for 9409. Pocket Pencil. Gross..... \$6.75
- No. 1481. Swan HB short flat-pointed Pencils for 2543-2341. Gross, \$4.00

SWAN POCKET PENCILS PROPELLING



- No. 9500. HB or Copying, Swan Propelling Pocket Pencil, celluloid, ebonized ends, 4 inches. Dozen, \$4.20
- No. 9500A. HB or Copying, Golden Swan Propelling Pencil, celluloid, ebonized ends, 5 inches. Dozen, \$4.80



- No. 3044. HB or Copying, Swan Propelling Pocket Pencil, celluloid, 4 inches. Dozen..... \$4.20
- No. 3045. HB or Copying Swan Propelling Copying Pencil, 5 inches long. Dozen..... \$4.80



- No. 3081. Copying Swan Thin Propelling Pocket Pencil, celluloid, ebonized ends, 4 inches. Dozen..... \$4.20
- No. 3082. HB Swan Thin Propelling Pocket Pencil, celluloid, ebonized ends, 4 inches. Dozen... \$4.20

Aldebaran Copying Refills for 9500, 9500A, 3044, 3045, in flat box of 6 refills, dozen boxes..... \$3.00

Aldebaran HB Refills for 9500, 9500A, 3044, 3045, in flat box of 6 refills, dozen boxes..... \$3.00



No. 2543. Nickered Pocket Pencil, flat, reversible, with pencil. Dozen \$2.50

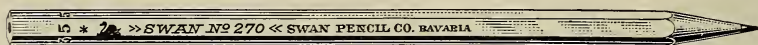


HIGH-GRADE LEAD PENCILS



- No. 2700. "TEC" Drawing Pencil. Hexagon, yellow finish, gold stamped, durable lead, absolutely free from grit, correctly graded in the following grades: 2B, B, F, HB, H, 2H, 3H, 4H. Per gross... \$9.00

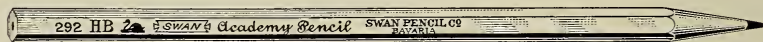
Swan pencils will meet every requirement of the architect and draftsman requiring a fine pencil with correctly graded lead at a reasonable price.



- No. 9270. Swan 9270, hexagon, olive-green^{*} polish, grades Nos. 1, 2, 3, 4, and 5. Per gross..... \$6.00



- No. 9290. Swan 9290, Lohengrin—hexagon—polished, grades Nos. 1, 2, 3, 4, and 5. Per gross..... \$5.40



- No. 9292. Swan 9292, Academy Pencil, hexagon, natural polish, grades 2B, HB, H, 2H, and 3H. Per gross..... \$5.75



- No. 9271. Swan 9271, round, olive-green polish, grades 1, 2, 3, 4, and 5. Per gross..... \$6.00



- No. 9209. Swan 9209, hexagon, gray polish, grades 2B, B, HB, F, H, 2H. Per gross..... \$7.50



HIGH-GRADE LEAD PENCILS—Continued



- No. 9212. Swan 9212, hexagon, yellow polish, grades 2B, B, HB, F, H, 2H. Per gross..... \$7.50



- No. 9216. Swan 9216, Anchor Pencil, round, black polish, grades 1, 2, 3, 4, 5. Per gross..... \$6.75

- No. 9217. Swan 9217, Anchor Pencil, hexagon, natural polish. Graded 1, 2, 3, 4, 5. Per gross..... \$6.75

SWAN RUBBER TIPS

Are made from selected rubber, and properly secured to the pencil. This rubber will not easily crumble while making erasures, and is therefore most economical for all pencil purposes.



- No. 9270R. Swan 9270R. Hexagon, olive-green polish, nickel tip with rubber. Grades 1, 2, 3, 4, 5. Gross..... \$6.75



- No. 9217R. Swan 9217R. Hexagon, natural polish, nickel tip with rubber. Grades 2B, HB, F, H, 2H. Gross..... \$7.20



- No. 9285R. Swan 9285R. Hexagon, yellow polish, nickel tip with rubber. Grades 4B, 2B, F, 2H, 4H. Gross..... \$7.20



- No. 9244R. Swan Round, olive-green polish, gilt tip and rubber. Graded. Gross..... \$6.75

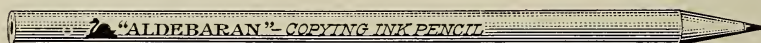
- ~~No. 9262. Standard, hexagon, yellow polish, nickel tip with rubber. Gross \$4.50~~



COPYING PENCILS

Bearing the Swan stamp will stand up under the most trying tests, due to the extreme care taken in the making. This lead is clean and smooth, contains absolutely no grit, and gives a clear uniform impression on all surfaces with excellent copying qualities.

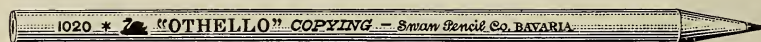
Swan Copying Pencils are used by railroads, steamships, and express companies, and are gradually being taken up for general correspondence work.



No. 9800. Aldebaran Copying, round, yellow polish, gold stamp. Gross. \$12.00



No. 9807. Pro Memoria Copying, hard, Swan No. 1007, round, light violet polish, black writing, violet copying lead. Gross..... \$6.75



No. 9820. Othello Copying, medium hard, Swan No. 1020, round, olive-green polish, black writing, violet copying lead. Gross. \$6.00

No. 9827. Red Copying, Swan No. 1027, round, red polish. Gross..... 6.75

No. 9828. Blue Copying, Swan No. 1028, round, blue polish. Gross.... 6.75

No. 9829. Red and Blue Copying, round, red and blue polish. Gross... 8.75



No. 9822. Copying, hexagon, light violet polish, Swan No. 1022. Gross. \$8.25



SWAN WAX CRAYONS OR CRETA LAEVIS PENCILS

THESE pencils are made in sixty different colors and are polished in accordance with the color of the chalk contained in the pencil. They possess advantages over ordinary pastel crayons, inasmuch as they are made of the finest pigments and can be used much in the same way as ordinary lead pencils, without fear of breaking away, and the work when finished does not efface or smear.

Below is a list of the colors in which these pencils are supplied:



No. 9801. Gross..... \$9.00

REDS

- No. 18. Orange Vermilion.
- No. 13. Scarlet Vermilion.
- No. 56. Pink Madder.
- No. 42. Chinese Vermilion.
- No. 17. Rose Madder.
- No. 2. Flesh Color A.
- No. 48. Carmine.
- No. 0. Burnt Carmine.
- No. 33. Violet Madder.
- No. 55. Light Red.
- No. 12. Flesh Color B.
- No. 45. Indian Red.
- No. 35. Persian Red.

BROWNS

- No. 4. Sepia.
- No. 8. Olive Brown.
- No. 47. Raw Umber.
- No. 20. Vandyke Brown.
- No. 38. Burnt Umber.
- No. 59. Bistre.
- No. 44. Raw Sienna.
- No. 051. Casell Earth.

YELLOWS

- No. 37. Lemon Yellow Pale.
- No. 23. Chrome Yellow.
- No. 50. Naples Yellow.
- No. 21. Chrome Orange.
- No. 3. Cadmium Yellow.
- No. 43. Yellow Ocher.
- No. 6. Gold Ocher.
- No. 40. Brown Ocher.

VIOLETS

- No. 41. Cobalt Violet.
- No. 57. Violet Deep.
- No. 26. Violet Carmine.
- No. 11. Mauve.
- No. 46. Mars Violet.

GREENS

- No. 30. Emerald Green.
- No. 39. Oxide of Chromium.
- No. 10. Chrome Green Deep.
- No. 36. Cobalt Green.
- No. 19. Sap Green.
- No. 29. Mineral Green.
- No. 52. Cinnabar Green.
- No. 49. Olive Green Deep.
- No. 27. Olive Green Light.
- No. 5. Olive Black.
- No. 14. Viridian.

BLUES

- No. 25. Cobalt Blue.
- No. 22. Sky Blue.
- No. 53. Gray Blue.
- No. 31. Ultramarine Deep.
- No. 28. Ultramarine Brilliant.
- No. 15. Prussian Blue.
- No. 58. Blue Black.

VARIOUS

- No. 24. White.
- No. 9. Light Gray.
- No. 7. Indigo.
- No. 1. Neutral Tint.
- No. 16. Gray Deep.
- No. 32. Ivory Black.



COLORED CHALK PENCILS



No. 605.	Vermilion Chalk, first quality, hexagon, red polish.	Gross....	\$12.00
No. 620.	Blue Chalk, first quality, hexagon, blue polish.	Gross.....	10.00
No. 635.	Red and Blue Chalk, first quality.	Gross.....	10.00
No. 650.	Green Chalk, first quality, hexagon, green polish.	Gross....	10.00
No. 659.	Yellow Chalk, first quality, hexagon, yellow polish.	Gross...	10.00

SWAN FINE COLORED OFFICE PENCILS



No. 906.	Red, round, red polish.	Gross.....	\$6.00
----------	-------------------------	------------	--------



No. 914.	Blue, round, blue polish.	Gross.....	\$6.00
No. 922.	Red and Blue, round, red polish.	Gross.....	6.00
No. 1067.	Checking Pencil, Black, gold lettering.	Gross.....	6.00

SWAN FLESH PENCILS

Swan Dermatographic Colored Pencils for drawing on the human skin, in surgical operations and for anatomical purposes.



No. 2180.	Black, round, black polish, gold lettering.	Gross.....	\$12.00
No. 2182.	Red, round, red polish, gold lettering.	Gross.....	12.00
No. 2184.	Blue, round, blue polish, gold lettering.	Gross.....	12.00

SWAN PENCILS FOR WRITING ON GLASS, ETC.



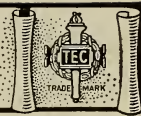
No. 2200.	Blue, round, blue polish, gold lettering.	Gross.....	\$12.00
No. 2201.	Red, round, red polish, gold lettering.	Gross.....	12.00
No. 2202.	Green, round, green polish, gold lettering.	Gross.....	12.00
No. 2203.	Yellow, round, yellow polish, gold lettering.	Gross.....	12.00

TELEGRAPH COLORED PENCILS

No. 2163.	Blue Pencil, blue polish.....	\$9.00
No. 2165.	Red Pencil, red polish.....	9.00



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.

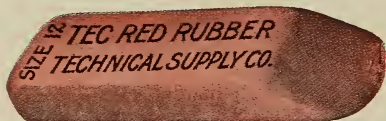


Display Case for 9801 Wax
Crayon Pencils. Compartments
hold 1 dozen pencils, and there
is a compartment for every one of
the 60 colors.

DEALERS NOTE: Send for special dealer proposition
and store window display.



“TEC” ERASIVE RUBBER



2790



2792

2790. “Tec” Red Rubber, beveled, for pencil and ink, three sizes.
 Pieces to Pound, 40 20 12
 Per piece\$0.06 \$0.12 \$0.20 Per pound.....\$2.25
2792. “Tec” Green Rubber, beveled, for pencil and ink, three sizes.
 Pieces to Pound, 40 20 12
 Per piece\$0.06 \$0.12 \$0.20 Per pound.....\$2.25



2794

- | | | Molded Back | Soft Back |
|---|--------|-------------|-----------|
| 2794. “Tec” Sponge Rubber, 2×1×1 inches.....each, | \$.30 | | \$.20 |
| 2795. “Tec” Sponge Rubber, 4×2×1 inches.....each, | .60 | | .50 |
| 2796. “Tec” Sponge Rubber, 4×3×1 inches.....each, | .90 | | .80 |
| 2797. “Tec” Sponge Rubber, 6×4×1 inches.....each, | 1.80 | | 1.60 |



2798

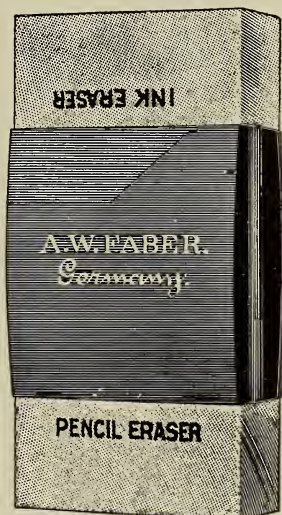


2798. “Tec” Klener. A wonderful composition, removes dirt and pencil marks without disturbing the surface of paper or cloth.
- | | Small
1"×1"×1" | Medium
1"×1"×2" | Large
1"×2"×3" |
|------------|-------------------|--------------------|-------------------|
| Each | \$0.05 | \$0.10 | \$0.20 |
2800. “Tec” Pliable Rubber. In pink or gray.
 Pieces to Pound, 4 8 12 20
 Each\$0.50 \$0.25 \$0.18 \$0.10 Per pound.....\$2.00

RUBBER ERASERS

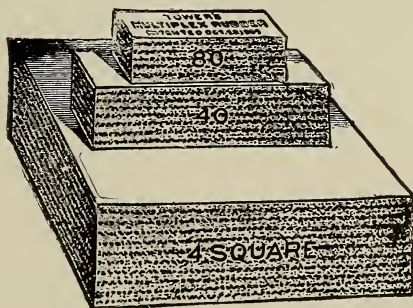


2805



2806

- | | | | |
|---|--------|--------|--------|
| 2805. E. Faber's Kneaded Rubber, small. | | | |
| Per box of 12 | | | \$1.00 |
| Each | | | .10 |
| 2806. A. W. Faber's Ink and Pencil Eraser, in wood. | | | |
| Each | Medium | Large | |
| | \$.15 | \$.25 | |



2807

- | | | | | | |
|---|----------------------|--------|--------|--------|--------|
| 2807. Multiplex Rubber, oblong, four sizes. | | | | | |
| | Pieces to the Pound, | 60 | 30 | 20 | 12 |
| Per piece | | \$.05 | \$.10 | \$.15 | \$.25 |
| Per pound | | | | | \$3.00 |



TECHNICAL SUPPLY COMPANY SCRANTON, PA.

RUBBER ERASERS—Continued



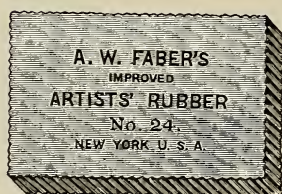
2809

	Each	Per Gross
2808. A. W. Faber's Typewriter Eraser, small.....	\$.05	\$6.00
2809. A. W. Faber's Typewriter Eraser, large.....	.10	9.00

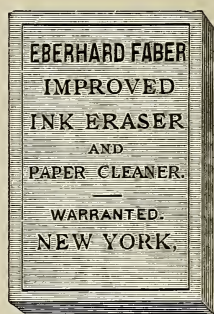


2810

2810. A. W. Faber's Ink and Pencil Eraser, in pencil form.....	each, \$.15
2812. A. W. Faber's Ink Eraser, in pencil form.....	each, .15
2814. A. W. Faber's Pencil Eraser, in pencil form.....	each, .15



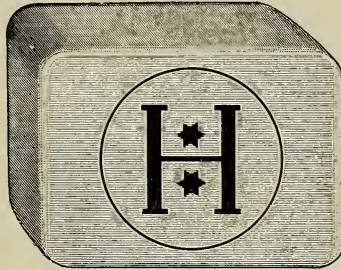
2820



2822

2820. A. W. Faber's Improved Artists' Rubber.								
Pieces to the Pound,	40	30	24	20	16	12	8	4
Per piece, ...	\$.05	\$.08	\$.10	\$.12	\$.15	\$.20	\$.25	\$.50
Per pound	\$2.00							
2822. E. Faber's Ink Erasers.....	each,	Small	Large	Extra Large				
		\$.05	\$.10	\$.20				

RUBBER ERASERS—Continued



2824

2824. Hardtmuth's Pliable Rubber, pink or gray.

Pieces to the Pound,	40	36	30	24	20	16	12	8	4
Per piece	\$.05	\$.06	\$.07	\$.08	\$.10	\$.15	\$.17	\$.25	\$.50
Per pound	\$2.00								

PENCIL POINTERS



2900

2900. Pencil Pointer, $1\frac{1}{4} \times 4$ inches, with handle.....each, \$.15

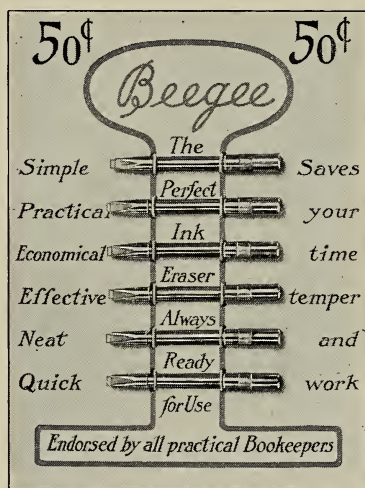
This pencil pointer consists of a number of sheets of flint paper made into a block.



2905

2905. Steel Pencil Pointer, File, and Tack Lifter, $7\frac{3}{4}$ inches.....each, \$.25

BEGEE INK ERASER



It Brushes the Blots Away

2926. Instead of rubber, this eraser is equipped with hundreds of fine white bristles, held together in a solid mass by a nicked cap. A slight rubbing over the soiled surface of the paper will "brush" the blot away. It cannot scratch or injure the paper in any way. Fits the hand like a pencil. Has no complicated parts and consequently will not get out of order. The brush can be adjusted by simply turning the end of the holder. When the brush wears down a new one will be supplied at a cost of 10 cents, but the brush will last a surprisingly long time.

Mailed, postpaid each, \$50

Mailed, postpaid, per dozen 4.00

NOTE: 2926C put up "one dozen to the card" for Dealers' Display Cabinets or Windows.

STEEL ERASERS



2910

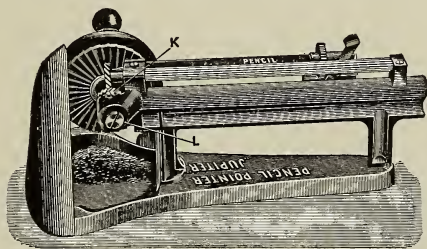
- | | |
|--|-------------|
| 2910. Steel Eraser, cocoa handle, domestic..... | each, \$.35 |
| 2912. Steel Eraser, cocoa handle, Rodgers..... | each, .60 |
| 2913. Steel Eraser, white-bone handle, domestic..... | each, .50 |
| 2914. Steel Eraser, white-bone handle, imported..... | each, .75 |



2920

- | | |
|--|-------------|
| 2920. Steel Eraser, cocoa handle, domestic..... | each, \$.45 |
| 2922. Steel Eraser, cocoa handle, Rodgers..... | each, .80 |
| 2923. Steel Eraser, white-bone handle, domestic..... | each, 1.00 |
| 2924. Steel Eraser, white-bone handle, Rodgers..... | each, 2.10 |

PENCIL SHARPENERS



2955

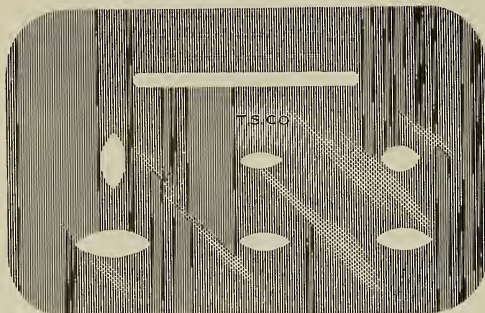
2955. "Jupiter" Pencil Sharpener is superior to all others in workmanship and the ease with which it can be operated. The cutting wheel is made reversible, so that when one side becomes dull the other side may be used, after which a new cutting wheel can be supplied or the old one sharpened.

Each \$10.00



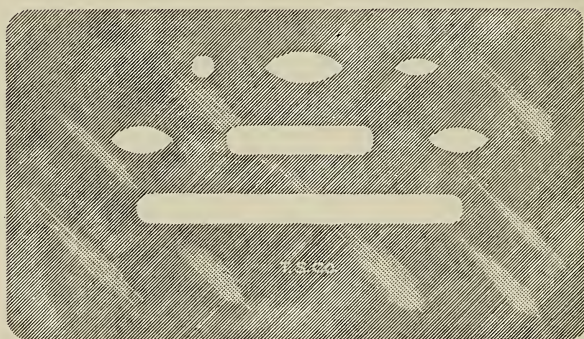
"TEC" ERASING SHIELDS

For making erasures on drawings and typewriting; limited in size to hole in shield



2960

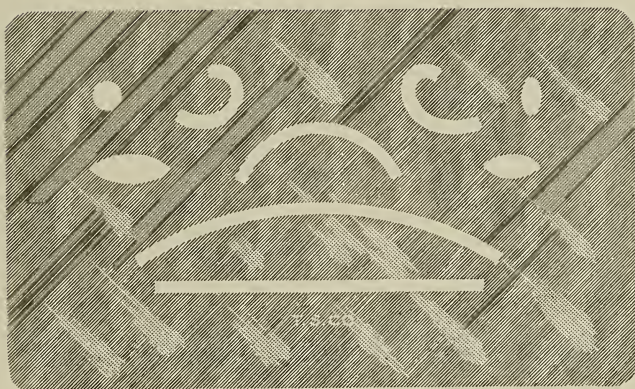
2960. Metal Erasing Shield, nickel plated, $2\frac{3}{8} \times 3\frac{3}{4}$ inches.....each, \$.25



2962

2962. Celluloid Erasing Shield, transparent, $2\frac{1}{2} \times 4\frac{1}{2}$ inches.....each, \$.20

"TEC" ERASING SHIELDS—Continued



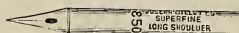
2964

2964. Celluloid Erasing Shield, transparent, 3×5 inches.....each, \$.25

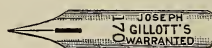


GILLOTT'S STEEL PENS

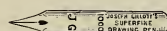
For Drafting Use



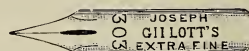
2980



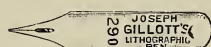
2986



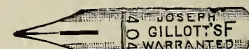
2981



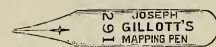
2987



2982



2988



2985



2990

	Per Dozen	Per Gross
2980. Gillott's Crow Quill Pens (850), Long Shoulder, on cards.	\$.75	\$ 7.50
2981. Gillott's Drawing Pens (1000), Superfine, on cards.	1.10	12.00
2982. Gillott's Lithographic Pens (290), on cards with holder.	.60	6.00
2983. Gillott's Lithographic Pens (290), loose, in gross boxes.	.50	5.00
2984. Gillott's Mapping Pens (291), on cards, with holder.	.60	6.00
2985. Gillott's Mapping Pens (291), loose, in gross boxes.	.50	5.00
2986. Gillott's Mapping Pens (170), loose, in gross boxes.	.10	1.00
2987. Gillott's Mapping Pens (303), loose, in gross boxes.	.15	1.40
2988. Gillott's Mapping Pens (404), loose, in gross boxes.	.10	1.00
2989. French Crow Quill Pens, on cards, with holders.	.35	3.60



(About $\frac{5}{8}$ Actual Size.)

2990

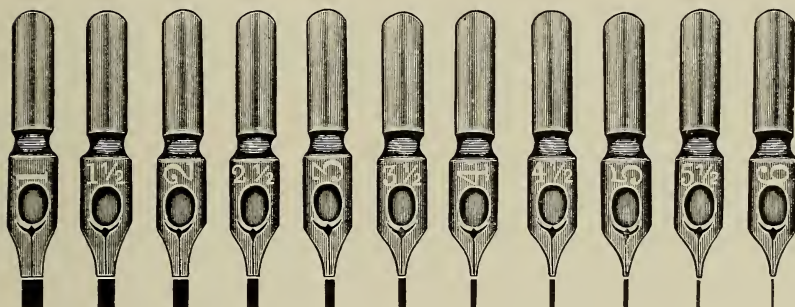
	Per Dozen	Per Gross
2990. Gillott's Crow Quill Pens (659), on card, with holder.	\$.60	\$6.00
2992. Improved Crow Quill Penholder. each,	.10	



ROUND WRITING PENS

For Lettering Plans, Maps, and Drawings

Single-Pointed Pens, Nos. 3000, 3001



3000

3000. Single-Pointed Pens per $\frac{1}{4}$ gross of any one size, \$.25
Single-Pointed Pens per gross of any size, .75

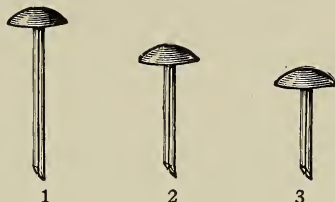


3008

3008. Ink Holder for Single-Pointed Pens.....each, \$.10
Per box of six 30

PAPER FASTENERS

“SOLIDHED” PAPER FASTENERS



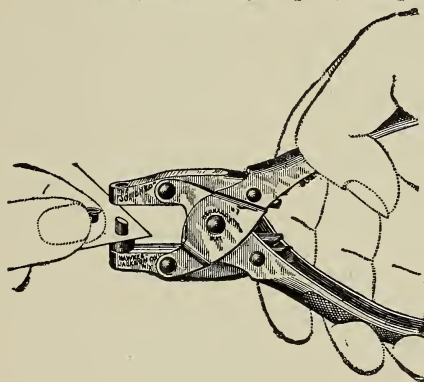
Exact sizes

3125. Made with round, stiff, split pins. Can be pushed through several thicknesses of paper or fabrics and when bent over will lie close and remain firm.....per 1,000 \$1.00
3126. Rinklips. The handiest paper clip made.....per 1,000 .50

COMBINATION PUNCH AND EYELET SET

THE “SOLIDHED” EYELET PLIERS

The Simplest, Easiest, and Quickest Punch and Eyelet Set for Eyeleting Cards, Fastening Papers, Samples, Etc.



3130



3132

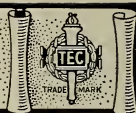
To operate, simply punch a hole, place an eyelet, with the small end down, on top of the punch and close the pliers.

3130. Per set\$1.00
3132. “Solidhed” Eyelets per 1,000 .40
3135. Staple Press, for binding.....each, 1.50
- Staples, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{8}$, or $\frac{1}{2}$ inch.....per 1,000 .40



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



Chicago Steel Tape



These Tapes have a deservedly world-wide reputation.

They are made of the best imported steel, tempered under special specifications and tested.

Graduated and numbered on solder every foot, Link, Meter or Vara with the end units in 10ths.

Made any length.

Standard width is $\frac{5}{16}$ ".

But made on special orders $\frac{1}{10}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", and $\frac{1}{2}$ " width.



STEEL TAPE PRICE LIST

Graduation beginning at end of Steel Ribbon	Graduation beginning 6 in. from end of Steel Ribbon	Length	PRICE		
			Without Reel	With Wooden Reel	With Metallic Reel
No. 3320	No. 3321	50 feet	\$ 3.00	\$ 3.75	\$ 4.25
No. 3320A	No. 3321A	100 feet	3.75	4.50	5.00
No. 3320B	No. 3321B	200 feet	6.00	6.75	9.00
No. 3320C	No. 3321C	300 feet	8.00	9.50	12.00
No. 3320D	No. 3321D	500 feet	13.00	14.50	18.00
No. 3322	No. 3223	100 link	3.00	3.75	4.25
No. 3322A	No. 3223A	200 link	5.00	5.75	7.00
No. 3224	No. 3225	20 vara	3.00	3.75	4.25
No. 3224A	No. 3225A	40 vara	5.00	5.75	7.00
No. 3224B	No. 3225B	50 vara	6.00	6.75	9.00
No. 3226	No. 3227	20 meter	3.00	3.75	4.25
No. 3226A	No. 3227A	40 meter	5.00	5.75	7.00

These Prices Are Net

For other lengths ask for special prices.

For tapes with shoulders add 25 cents without reel. If a metallic reel is wanted, inquire for special prices.

For tapes marked both sides add 1 cent per mark.

$\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ inch wide tape furnished if specified at the same price as above without reel, but not guaranteed.

If a metallic reel is wanted for other than standard widths, ask for special prices.



STEEL TAPES—A FOREWORD

Instantaneous Readings

The size, simplicity, and readability of the figures on the tapes in this section makes for absolute accuracy in laying out measurements.



The illustration above will give an idea of this marked improvement. Briefly described, it consists of repeating the foot mark, in easily distinguishable figures, at each inch or tenth-foot, as the case may be. Does away with all referring back to the last foot and its consequent difficulties and delays. The total reading is always directly before the eye. These graduations are furnished on all Steel Tapes.

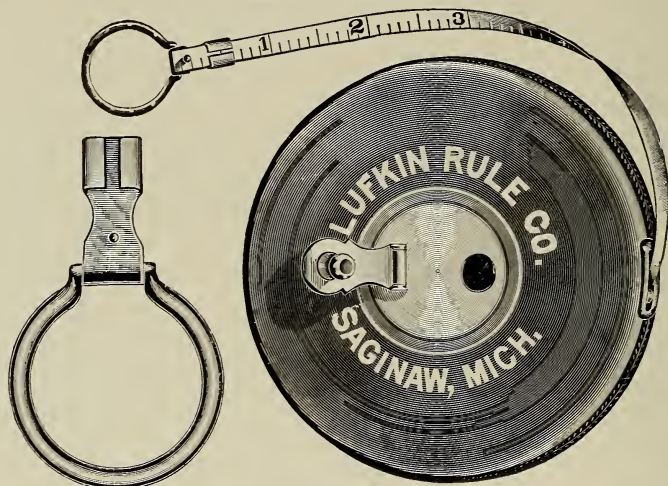
"MARVEL" POCKET STEEL TAPES

The only pocket steel tape made that sells at a quarter. A new article and a new price.



3199. 36-inch Steel Tape, $\frac{1}{4}$ -inch wide graduated in inches and 16ths. Nickel-plated case, spring wind, with center stop. The "Marvel" sells itself from a beautiful leatherette display box of one dozen tapes. The latest thing in pocket tapes, and a beautiful and durable article.....Price, per gross \$....Net

STEEL TAPES PAINE'S PATTERN

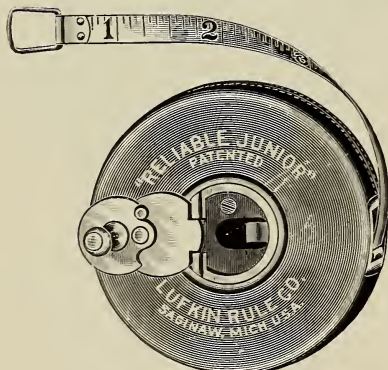


3200

3200. Hard-leather cases, nickel-plated trimmings, two detachable rings, with $\frac{1}{4}$ -inch steel ribbons, heavier and stronger than are used in regular steel tapes, and cases are thinner; graduated on one side in 10ths and 12ths.

	Length, in Feet,	50	66	75	100
Each		\$6.00	\$8.00	\$10.00	\$12.00

THE "RELIABLE" JUNIOR

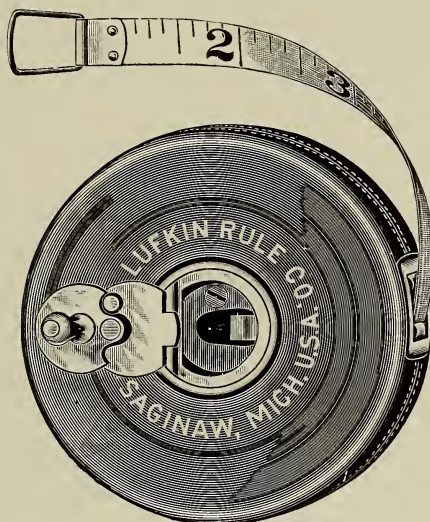


3205

3205. With hard-leather case, double-folding flush handle, opened by pressing button or small pin on reverse side. Compact and convenient for vest pocket. Steel ribbon $\frac{1}{4}$ -inch wide, graduations beginning at end.

	Length, in Feet,	25	50
Each		\$4.50	\$5.50

STEEL MEASURING TAPES



3210

Equipped with folding handle, opened by pressing on opposite side. Leather case and nickel-plated trimming.

Marked in feet and 12ths (inches and eighths) also 10ths and 100ths of feet for surveyors' use.

	Length	Diameter of Case	$\frac{3}{8}$ " wide	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
3210A.	25 feet,	$2\frac{3}{4}$ inches.....	\$ 4.50	\$ 5.10		
3210B.	33 feet,	$2\frac{3}{4}$ inches.....	5.20	5.85	\$ 6.60	\$ 7.40
3210C.	40 feet,	$3\frac{1}{4}$ inches.....	6.00			
3210D.	50 feet,	$3\frac{1}{4}$ inches.....	7.20	8.10	9.10	10.20
3210E.	66 feet,	$3\frac{3}{4}$ inches.....	9.20	10.35	11.65	13.10
3210F.	75 feet,	$4\frac{1}{4}$ inches.....	10.40	11.70	13.20	14.85
3210G.	100 feet,	$4\frac{1}{2}$ inches.....	12.80	14.40	16.20	18.20
3210H.	150 feet,	$5\frac{1}{4}$ inches.....	18.50	21.00		
3210J.	200 feet,	6 inches.....	24.00	27.00		

The above tapes are marked on the back with links and poles. When links are not wanted they will be supplied marked at every foot instead, at same price.

Tapes marked metric measure, one side only, same price as corresponding lengths in feet.

Tapes marked feet one side, metric measure on the other, add 1 cent per foot to list price.

Tapes marked feet and 12ths one side, feet, 10ths and 100ths on the other, add 2 cents per foot to list price.

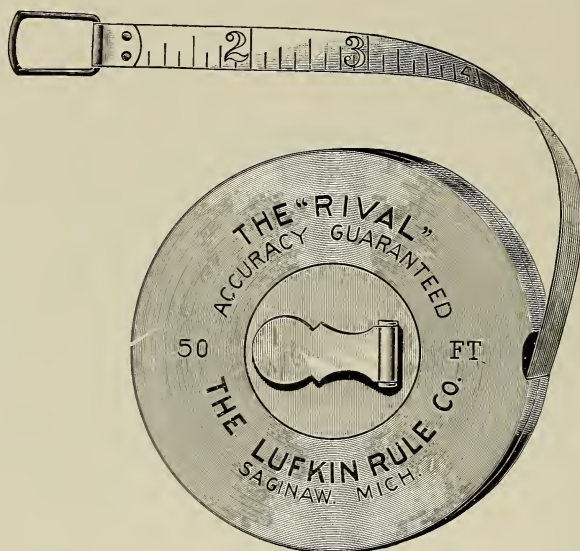
Tapes marked feet, inches and sixteenths, add 1 cent per foot to list price.

Tapes marked in consecutive inches, add 2 cents per foot to list price, and we furnish them marked in this way up to 50 feet.

For Tapes only, without cases, send for Special List.



STEEL MEASURING TAPES



3220

In nickel-plated steel cases with flush handle, marked on one side only in 10ths or 12ths.

With $\frac{3}{8}$ -inch Tapes

Marked feet and 12ths or 10ths and 100ths of feet for surveyors' use.

	Length	Diam. of Case	Each
3220A.	25 feet	2 $\frac{3}{4}$ inches	\$3.50
3220B.	33 feet	2 $\frac{3}{4}$ inches	3.95
3220C.	50 feet	3 $\frac{1}{4}$ inches	4.20
3220D.	66 feet	3 $\frac{3}{4}$ inches	5.00
3220E.	75 feet	3 $\frac{3}{4}$ inches	5.50
3220F.	100 feet	4 $\frac{1}{4}$ inches	6.90

Marked feet one side, metric measure other side, add 2 cents per foot to the list price.

MARKED IN METERS AND CENTIMETERS

One Side Only. Millimeters the first 10 Centimeters.

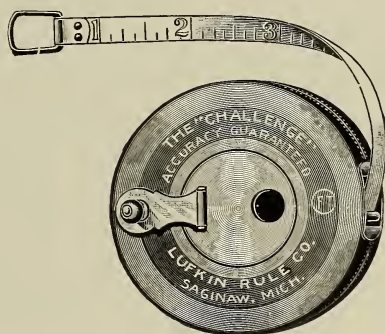
No.	241 M	243 M	244 M	245 M	246 M
Length, meters,	10	15	20	25	30
Price per dozen,	\$36.00	\$40.80	\$51.00	\$61.20	\$69.00

Packed one-half dozen in a box.

For "Rival" Tapes only, without cases, send for special list.



“CHALLENGE” STEEL TAPES



3225

Hard leather cases, nickel-plated trimmings, measurements guaranteed accurate.

With $\frac{1}{4}$ -inch Tapes

Marked feet and 12ths (inches and sixteenths) or 10ths and 100ths of feet, for surveyors' use.

	Length	Diam. of Case	Each
3225A.	25 feet	2 $\frac{1}{4}$ inches	\$3.10
3225B.	33 feet	2 $\frac{1}{2}$ inches	3.35
3225C.	50 feet	2 $\frac{7}{8}$ inches	3.60
3225D.	66 feet	3 $\frac{1}{8}$ inches	4.10
3225E.	75 feet	3 $\frac{3}{8}$ inches	4.60
3225F.	100 feet	3 $\frac{3}{4}$ inches	5.85

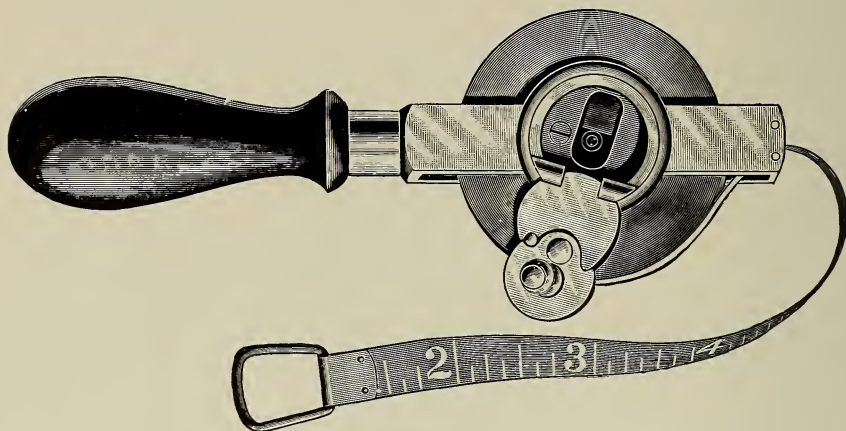
Tapes marked metric measure, one side only at same price.

Tapes marked feet one side, metric measure on the other, add 2 cents per foot to list price.

Tapes marked feet and 12ths one side, feet and 10ths on the other, add 2 cents per foot to list price.

Prices of “Challenge” Tapes only, without cases, send for special list.

“RELIABLE” FRAME STEEL TAPES



3230

Nickel-plated brass frames and trimmings. Double folding flush handle opened by pressing button on opposite side. Marked in 10ths and 100ths or feet and 12ths with links on back.

One-half Inch Steel Tapes

3230A. Length, 33 feet.....	each, \$ 6.50
3230B. Length, 50 feet.....	each, 7.50
3230C. Length, 66 feet.....	each, 9.50
3230D. Length, 75 feet.....	each, 11.50
3230E. Length, 100 feet.....	each, 13.50
3230F. Length, 150 feet.....	each, 20.00
3230G. Length, 200 feet.....	each, 26.00

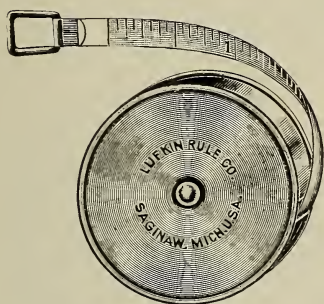
Tapes marked metric measure, one side only, same price as corresponding lengths in feet.

Tapes marked feet one side, metric measure on the other, add 1 cent per foot to list price.

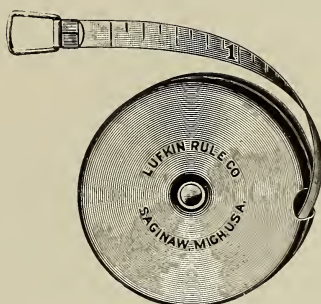
Tapes marked feet and 12ths one side, feet and 10ths on the other, add 2 cents per foot to list price.



POCKET STEEL TAPES



3240



3247

German silver cases, spring wind with center stop, $2\frac{1}{2}$ inches diameter, steel ribbons $\frac{5}{16}$ inch wide.

German silver cases, spring wind and stop, $2\frac{1}{2}$ inches diameter, steel ribbons $\frac{5}{16}$ inch wide.

3240. Pocket Steel Tapes, divided into 10ths or 12ths, 25 feet long.

Each \$3.60

3242. Pocket Steel Tapes, divided into 10ths and 12ths, 33 feet long.

Each 4.00

3245. Pocket Steel Tapes, divided into 16ths and meters.

	Length, in feet,	3	5	6	9	12
Each		\$1.10	\$1.40	\$1.60	\$2.20	\$2.80

3246. Pocket Steel Tapes, divided into 10ths and 16ths.

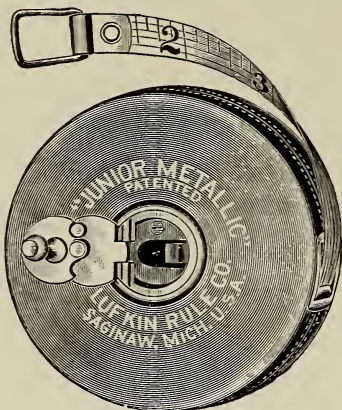
Each	\$1.30	\$1.90	\$3.00
------------	--------	--------	--------

3247. Pocket Linen Tapes, divided into 16ths and meters.

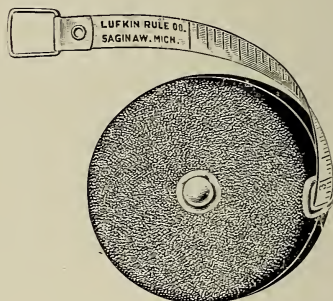
Each	\$.80	\$1.05
------------	--------	--------



“RELIABLE” JUNIOR METALLIC TAPE



3250



3260

Double folding flush handle, same as “Reliable” Steel Tapes, opened by pressing button on opposite side. Tape is made of best woven linen with metallic warp, hard leather cases, nickel-plated trimmings.

Tapes $\frac{3}{8}$ -inch Wide

	Length	Width of Case	Each
3250A.	25 feet	$2\frac{3}{4}$ inches	\$1.80
3250B.	33 feet	3 inches	2.00
3250C.	50 feet	$3\frac{1}{2}$ inches	2.25
3250D.	66 feet	$3\frac{3}{4}$ inches	2.75

POCKET TAPES IN LEATHER CASES

The cases for these tapes are made with metal-lined leather of the very best quality and in attractive assorted colors. They are spring wind with center stop and all trimmings are silver plated. Each tape is put up in a handsome embossed paper box, with jeweler's cotton. This is the most beautiful, attractive, and durable pocket tape ever produced.

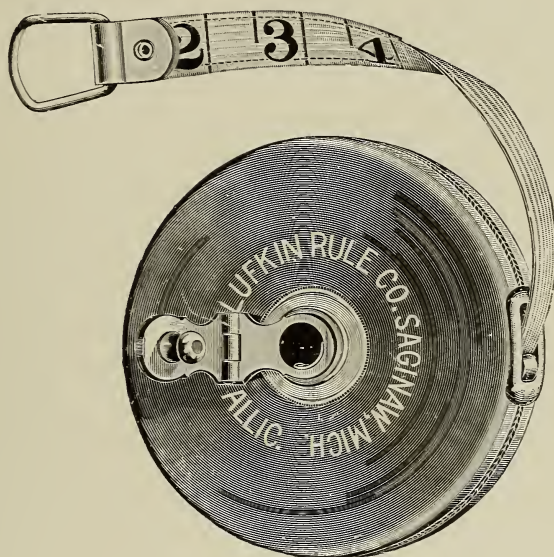
With $\frac{1}{4}$ -inch Steel Tapes

3260.	60 inches, marked inches and 16ths.....	each, \$1.50
3260A.	60 inches, $1\frac{1}{2}$ meters, inches and 16ths one side, millimeters on other	each, 1.70
3260B.	60 inches, inches and 16ths on one side, feet, 10ths, and 100ths on other side	each, 1.70

With $\frac{1}{4}$ -inch Enameled-Linen Tapes

3270.	60 inches, marked inches and 8ths	each, \$1.00
3270A.	60 inches, $1\frac{1}{2}$ meters, inches and 8ths one side, millimeters on other	each, 1.15

METALLIC TAPES



3280

Double fold flush handle, same as used on "Reliable" Steel Tapes, opened by pressing button on opposite side. Tape $\frac{5}{8}$ -inch wide, made of best woven linen, with metallic warp. Hard leather cases.

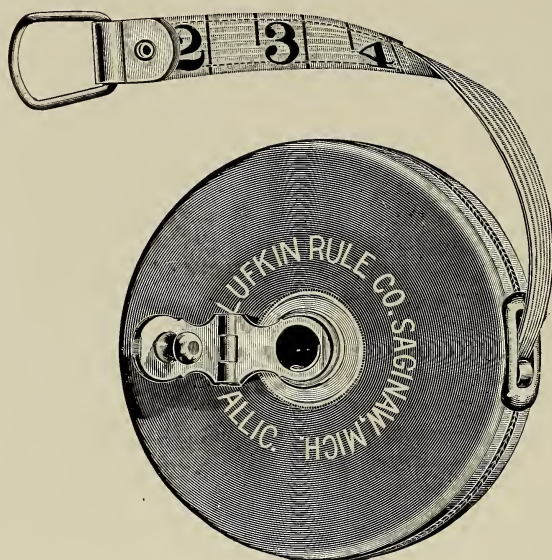
	Length	Marked One Side Only, 12ths	Marked Both Sides, Either 12ths and Links or 10ths and Links
3280A.	25 feet	Each \$2.10	\$2.25
3280B.	33 feet	Each 2.40	2.70
3280C.	40 feet	Each 2.65	2.90
3280D.	50 feet	Each 2.90	3.30
3280E.	66 feet	Each 3.30	3.60
3280F.	75 feet	Each 3.60	4.10
3280G.	100 feet	Each 4.10	4.90

Tapes marked in meters and centimeters on back instead of links, price same as tapes marked on both sides.

Tapes marked in feet on back, instead of links, price same as tapes marked both sides.



METALLIC TAPES



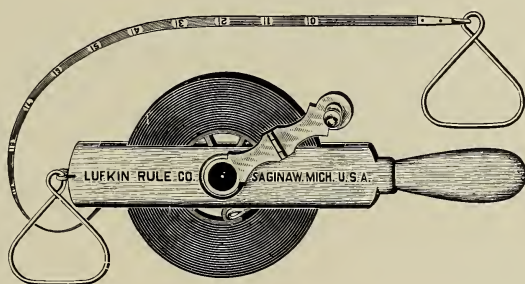
Tape $\frac{5}{8}$ -inch wide, made of best woven linen with metallic warp. Hard leather cases, brass folding handles and brass trimmings.

	Length	Marked One Side Only, 12ths	Marked Both Sides, 12th and Links or 10ths and Links
3285A.	25 feet	\$1.80 each	\$1.90
3285B.	33 feet	2.10 each	2.20
3285C.	40 feet	2.30 each	2.40
3285D.	50 feet	2.60 each	2.70
3285E.	66 feet	3.00 each	3.10
3285F.	75 feet	3.30 each	3.40
3285G.	100 feet	4.50 each	4.60

METALLIC TAPES WITHOUT CASES

3287. Marked one side.							
	Length in Feet,	25	33	50	66	75	100
Each	.....	\$ .80	\$1.00	\$1.40	\$1.60	\$1.80	\$2.60
3288. Marked both sides.							
Each	.....	.90	1.10	1.50	1.80	2.00	2.90
3290.							
	Length in Meters,		10	15	20	25	30
Each	.....		1.00	1.40	1.60	2.10	2.60

IMPROVED SURVEYOR'S CHAIN TAPES

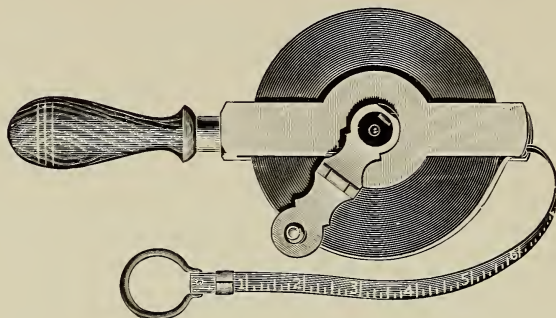


3300

With heavy one-quarter inch Steel Tapes. Nicely finished hardwood reel, with large metal folding handle and two large detachable rings. Trimmings nicely nickel plated. The frame and winding apparatus is strong, durable and compact, and can be conveniently carried in the pocket when the tape is in use. The tape can easily be detached from the frame, and is provided with two large and strong detachable handles or rings. When the tape is not in use these handles are fastened to the frame, where they will not get lost, and at the same time they serve as a convenient handle for carrying the complete tape.

Tapes Complete, With Reel		Tapes Only, With Rings	
3300A. 100 feet	each, \$ 6.00	3301A. 100 feet	each, \$ 4.00
3300B. 150 feet	each, 7.50	3301B. 150 feet	each, 5.50
3300C. 200 feet	each, 9.00	3301C. 200 feet	each, 7.00
3300D. 300 feet	each, 12.50	3301D. 300 feet	each, 10.50
3300E. 100 links	each, 5.00	3301E. 100 links	each, 3.00
3300F. 200 links	each, 7.00	3301F. 200 links	each, 5.00
3300G. 300 links	each, 9.00	3301G. 300 links	each, 7.00
3300H. 25 Meter.....	each 5.75	3301H. 25 Meter	each, 3.75
3300K. 30 Meter.....	each, 6.50	3301 J. 30 Meter	each, 4.50
3300L. 50 Meter.....	each, 9.50	3301K. 50 Meter	each, 7.50
3300M. 100 Meter	each, 17.00	3301L. 100 Meter	each, 15.00
Reel only	2.00	Rings only	Per pair, .50

ENGINEER'S PATTERN FRAME STEEL TAPES



3302

With $\frac{1}{4}$ -inch Heavy Tapes

Two detachable rings. Folding winding handle. Frames and trimmings of brass; nickel plated. When tapes are detached for use the frame can be carried in pocket. Tape can be readily detached and when desired, an extra ring will be furnished for other end.

Tapes 100 feet and longer supplied with a 4-arm frame. Marked feet and 12ths (inches and eighths) or 10ths and 100ths of feet for Surveyors' use.

3302A. Length 33 feet.....	each, \$ 4.25
3302B. Length 50 feet.....	each, 5.25
3302C. Length 66 feet.....	each, 6.25
3302D. Length 75 feet.....	each, 7.50
3302E. Length 100 feet.....	each, 9.00
3302F. Length 150 feet.....	each, 13.50
3302G. Length 200 feet.....	each, 17.50
3302H. Length 300 feet.....	each, 25.00

Tapes marked links on back, add 1 cent per foot to list price.

Tapes marked feet one side, metric measure on the other, add 2 cents per foot to list price.

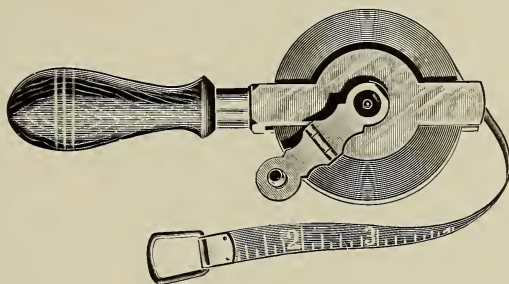
MARKED IN METERS AND CENTIMETERS

One Side Only. Millimeters the First 10 Centimeters

No.		3302J	3302K	3302L	3302M	3302R	3302S	3302W
	Length in Meters,	10	15	20	25	30	50	100
Price	each,	\$4.25	\$5.25	\$6.25	\$8.00	\$9.00	\$14.50	\$27.00

For price of Tapes only, without frames, send for special list.

"GERMANIA" FRAME STEEL TAPES



3303

Folding winding handle. Frames and trimmings of brass, nicely nickel plated; with rosewood handles. Made very strong and serviceable. Tapes marked one side only in 10ths or 12ths.

With Three-eighth inch Steel Tapes

"Germania" Tapes of 150 feet and longer are supplied with 4-arm frame marked feet and 12ths (inches and eighths) or 10ths and 100ths of feet for Surveyors' use.

	Length	$\frac{3}{8}$ in. Wide	$\frac{1}{2}$ in. Wide
3303A.	33 feet	\$ 3.50	\$ 4.25
3303B.	50 feet	4.50	5.25
3303C.	66 feet	5.25	6.25
3303D.	75 feet	6.25	7.50
3303E.	100 feet	7.75	9.00
3303F.	150 feet	12.50	13.50
3303G.	200 feet	15.50	17.50
3303H.	300 feet	23.00	25.00

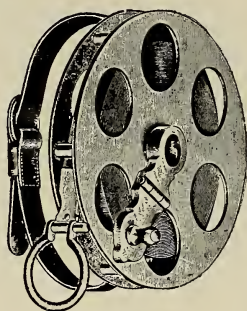
Marked in Meters and Centimeters

One Side Only. First 10 Centimeters in Millimeters

	Length in Meters	$\frac{3}{8}$ in. Wide	$\frac{1}{2}$ in. Wide
3304A.	10	\$ 3.50	\$ 4.25
3304B.	15	4.50	5.25
3304C.	20	5.25	6.25
3304D.	25	6.75	8.00
3304E.	30	7.75	9.00
3304F.	50	13.00	14.50
3304G.	100	25.00	27.00

Tapes marked feet one side, metric measure on the other, add 2 cents per foot to list price.

WOLVERINE STEEL TAPES



3305

Marked feet and 12ths (inches and eighths) or 10ths and 100ths of feet for Surveyors' use.

	Length	Diam. of Reel	$\frac{1}{4}$ " Tape	Diam. of Reel	$\frac{3}{8}$ " Tape
3305A.	50 feet	$4\frac{1}{8}$ "	\$ 7.00	$3\frac{5}{8}$ "	\$ 6.50
3305B.	66 feet	$4\frac{5}{8}$ "	8.50	$4\frac{1}{8}$ "	7.75
3305C.	75 feet	$4\frac{5}{8}$ "	9.50	$4\frac{1}{8}$ "	8.50
3305D.	100 feet	$5\frac{1}{4}$ "	12.00	$4\frac{5}{8}$ "	10.50

Marked in Meters and Centimeters

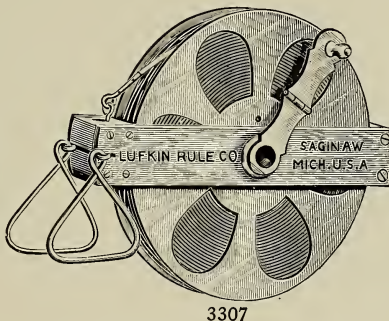
One Side Only. First 10 Centimeters in Millimeters

	Length in Meters	$\frac{1}{4}$ " Tape	$\frac{3}{8}$ " Tape
3305E.	15	\$ 7.00	\$ 6.50
3305G.	20	8.50	7.75
3305H.	25	9.50	9.25
3305 J.	30	12.00	10.50

Tapes marked links on back, add 1 cent to list price.

Tapes marked feet one side, metric measure on the other, add 2 cents per foot to list price.

SURVEYOR'S CHAIN TAPES



Tape Complete with Reel

With heavy one-eighth inch steel tapes, hardwood frame with substantial sheet-steel open reel. Large metal folding winding handle and two large detachable rings, which can, for convenience of carrying, be fastened to the frame when the tape is not in use. One side of frame is provided with a large and convenient leather loop for holding.

Tapes Complete, With Reel		Tapes Only, With Rings	
3307A.	100 feet each, \$ 7.50	100 feet each, \$ 4.00	
3307B.	150 feet each, 9.00	150 feet each, 5.50	
3307C.	200 feet each, 10.00	200 feet each, 7.00	
3307D.	300 feet each, 14.00	300 feet each, 10.00	
3307E.	500 feet each, 21.50	500 feet each, 18.00	
3307F.	650 feet each, 28.00	650 feet each, 24.50	
3307G.	660 feet each, 28.50	660 feet each, 25.00	
3307H.	100 links each, 6.50	100 links each, 3.00	
3307 J.	200 links each, 8.50	200 links each, 5.00	
3307K.	300 links each, 10.50	300 links each, 7.00	
3307L.	500 links each, 15.50	500 links each, 12.00	
3307N.	25 Meters each, 7.25	25 Meters each, 3.75	
3307R.	30 Meters each, 8.00	30 Meters each, 4.50	
3307S.	50 Meters each, 11.00	50 Meters each, 7.50	
3307W.	100 Meters each, 18.50	100 Meters each, 15.00	
Reel only	3.50	Rings only Per pair	.50

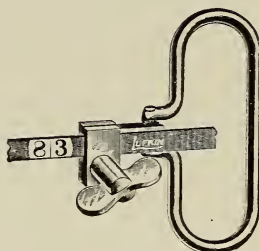
HANDLES AND PLUMB-BOBS FOR STEEL TAPES



3308



3310



3309

CLAMP HANDLES

For attaching to any part of a long steel tape, thus enabling one to adapt it to any desired length. Brass, nicely nickel plated.

3308 Price each 75 cents

TENSION HANDLES

For applying the exact tension at which a steel tape is standard. Brass, nickel plated.

3309. Indicating tension up to 20 pounds by half pounds.

Price each\$2.50

PLUMB-BOB ATTACHMENT FOR STEEL TAPES

These are used in oil fields for gauging oil in tanks, and this attachment is included in the measurement of the tapes. The Plumb-Bobs are nickel plated and provided with a detachable clip for fastening to the tape. We can furnish these for any of the Engineer's, and "Germania" Frame Tapes.

3310 Price, extra, each \$1.10

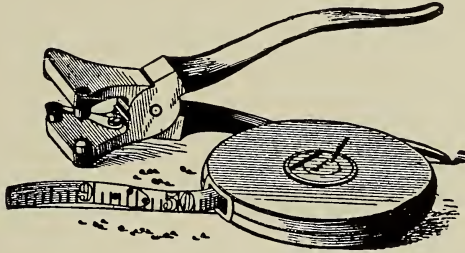


TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



TAPE REPAIR OUTFIT



3310

3310. The "Punch and Riveter" set for Repairing Steel Tapes. Five minutes only required to mend an ordinary break. Can be carried in instrument box, thus enabling an engineering corps to repair their broken tapes in the field with the loss of a few minutes' time. Cuts a clean hole through two thicknesses of steel tape without drawing the temper. No filing required, holes can be cut near the extreme edge without splitting the tape, thus avoiding any chance of dirt collecting under the splice, cutting the fingers when drawing tape through the hands, or catching in rags when cleaning, etc. **The repair cannot come undone or pull apart.** Used by the United States Engineers, United States Geological Survey, United States Navy Yards; City Engineers of Philadelphia, Harrisburg, Pittsburg, Carlisle, Reading, Easton, Erie, Williamsport, Scranton, Warren, Sharon, Beaver Falls, Pennsylvania; Baltimore, Washington, Cincinnati, Buffalo, Boston, Cleveland; Havana, Cuba; Bayonne and Elizabeth, New Jersey; Wilmington, Delaware; Drainage Commission of New Orleans, The Pennsylvania R. R., Reading R. R., Cumberland Valley R. R., Queen Anne R. R., Lehigh Valley R. R., Delaware, Lackawanna & Western R. R., Brooklyn Heights R. R., Wharton Switch Company, etc.

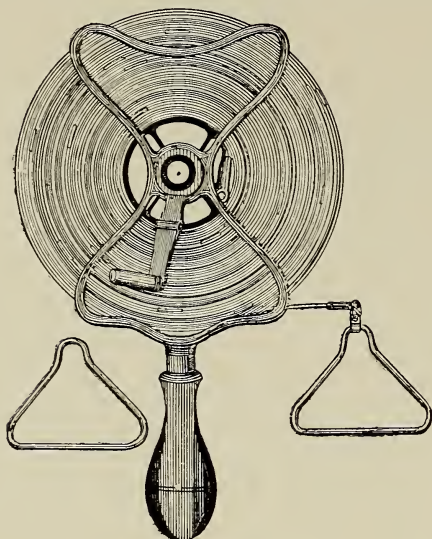
City Engineer of Beaver Falls, January 2, 1902, writes: "Permit me to express my satisfaction as to the efficiency of the device, etc."

Chief Engineer Cumberland Valley Railroad, January 10, 1902, writes: "It is just what we have needed for a long time."

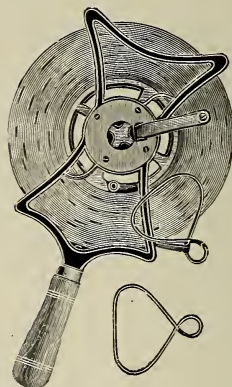
Punch and Riveter Outfit, complete\$5.50

Extra eyelets for outfit furnished 1,000 in package, two lengths at \$1.50 per package.

IMPROVED SURVEYOR'S CHAIN TAPES



3320



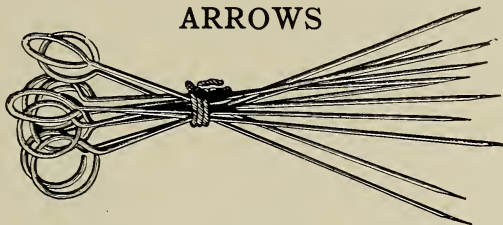
3322

These tapes are made of the best quality finely tempered steel $\frac{1}{4}$ -inch wide, graduated end feet in 10ths, the number of feet marked every 5 feet on metal bands fastened and soldered around the tape. They are provided with a handy and substantial reel and a pair of round detachable handles. These tapes are made to stand rough usage and to take the place of the old-time chain, being more accurate, neater, lighter, and will not get out of shape.

3320. Standard Chain Tape, complete.

	Length in Feet,	50	100	200
Each		\$5.00	\$6.00	\$10.00
3322. Surveyor's Chain Tape, 100 feet, with soldered bands each 5 feet, end 5 feet to feet, each end foot to 10ths of a foot..each,				\$6.00
3324. 101 feet, same as No. 3322, but with extra end foot to 10ths of a foot				each, 6.00
3326. 100 feet, graduated to feet, each 5 feet by soldered bands, marked with figures, intermediate feet by small rivets, each end foot to 10ths				each, 7.00
3328. 101 feet, same as No. 3326, but with extra end foot graduated to 10ths				each, 7.00
Nos. 3320 to 3328 plated with anti-rust coating.				
3330. Frame Brass Reel				each, 3.00
3332. Pair Plain Handles				per pair, .60

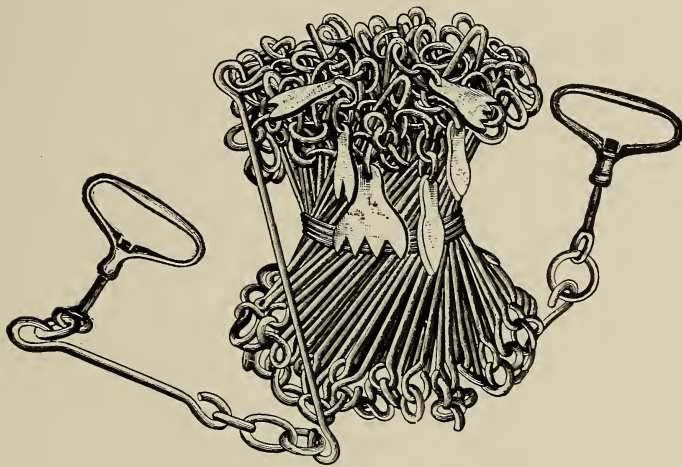
ARROWS



3340B

3340B. Steel Arrows, $\frac{7}{32}$ in., bright, 15" long.....	\$1.50
3340G. Steel Arrows, $\frac{7}{32}$ in., galvanized, 15" long.....	1.50
3341B. Steel Arrows, $\frac{7}{32}$ in., bright, 12" long.....	1.20
3341G. Steel Arrows, $\frac{7}{32}$ in., galvanized, 12" long.....	1.20
3342. Steel Arrows, $\frac{9}{64}$ in., bright, 15" long.....	1:20
3342G. Steel Arrows, $\frac{9}{64}$ in., galvanized, 15" long.....	1.20
3343. Steel Arrows, $\frac{9}{64}$ in., galvanized, 12" long.....	1.00
3343G. Steel Arrows, $\frac{9}{64}$ in., galvanized, 12" long.....	1.00

STEEL CHAINS



3350

3350. Surveyor's Steel Chains, brazed links and rings, W. G. 12, brass handles.	Length, in Feet,	33	66	50	100
Each	\$5.50	\$10.00	\$6.00	\$11.50	
3351. Steel Metric Chains, brazed links and rings, W. G. 12, with brass handles.	Length, in Meters,	10	15	20	25
Each	\$5.50	\$7.50	\$10.00	\$12.50	
3352. Iron Chains, W. G. 8, with brass handles.	Length, in Feet,	33	50	66	100
Each	\$2.50	\$3.50	\$4.25	\$5.50	

LEVELING RODS



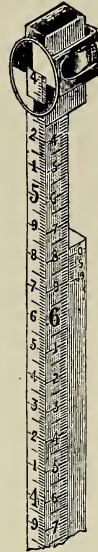
3420



3432



3430



3436



3445





LEVELING RODS AND RANGING POLES

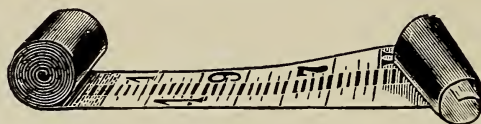
3420. Heavy Philadelphia Rod, with vernier clamp and target, 7 feet long, sliding out to 13 feet, plain.....each, \$15.00
3422. Heavy Philadelphia Rod, like No. 3420, but divided into feet, 10ths, and 100ths each, 15.00
3424. Light Philadelphia Rod, with vernier clamp and target, 6½ feet long, sliding out to 12 feet, plain.....each, 14.00
3426. Light Philadelphia Rod, like No. 3424, but divided into feet, 10ths, and 100ths each, 14.00
3428. Philadelphia Metric Rod, divided into meters, decimeters, and centimeters, with target, vernier clamp, 2.2 meters, sliding out to 4 meters each, 15.00
3430. New York Rod, with vernier clamp and target, 6½ feet long, sliding out to 12 feet, divided 10ths and 100ths part to foot..each, 14.00
3432. Mining Rod, with vernier clamp and target, 3 feet long, sliding out to 5 feet each, 11.50
3434. Mining Rod, like No. 3432, 5 feet long, divided feet and 10ths, sliding out to 9 feet each, 12.25
3436. Architect's Rod, 5½ feet long, brass mounted, with clamp and target, sliding out to 10 feet 6 inches, divided into feet, inches, and ½ inch each, 6.00
3438. Architect's Rod, like No. 3436, but divided into feet, 10ths, and 100ths each, 6.00

RANGING POLES

Painted Red and White Alternately

	Length, in Feet,	5	6	8	10
3440. Round	each,	\$1.75	\$2.00	\$2.25	\$2.50
3445. Octagonal	each,	1.75	2.00	2.25	2.50
3446. Steel Ranging Poles.....	each,		2.75	3.00	

FLEXIBLE POCKET LEVELING RODS

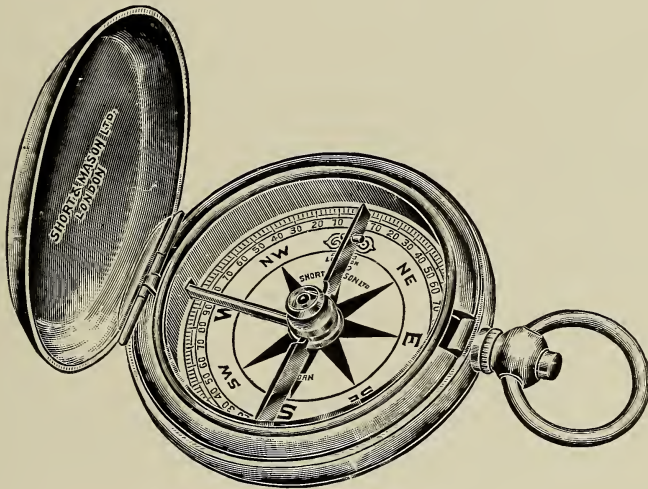


3450

These Rods are made of pliable, strong, rubber canvas, divided like self-reading rods. Can be coiled up and carried in the pocket. For use, they are fastened to a board or stick with thumbtacks.

- 3450. Flexible Pocket Leveling Rod, 10 feet long, divided into feet, 10ths, and 100ths each, \$3.25
- 3451. Flexible Pocket Leveling Rod, like No. 3450, but 12 feet long. each, 4.00
- 3452. Flexible Pocket Leveling Rod, 12 feet long, divided into inches and $\frac{1}{8}$ inch each, 4.00
- 3453. Flexible Pocket Leveling Rod, $3\frac{1}{2}$ meters long, divided into centimeters each, 4.00

MAGNETIC POCKET COMPASSES



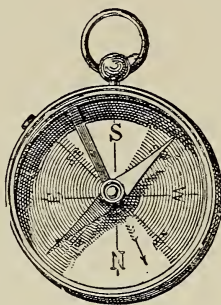
3510A

- 3510A. Fine Watch Pattern Compass, nickel-plated hunting case, edge-bar needle with jeweled cap and self-acting stop, metal dial, 1½ inches each, \$3.00
- 3510B. Same as No. 3510A, but 1¾ inches.....each, 3.25
- 3510E. Same as No. 3510A, but with aluminum floating dial, 1½".....each, 3.50
- 3510F. Same as No. 3510A, with aluminum floating dial, 1¾".....each, 4.00

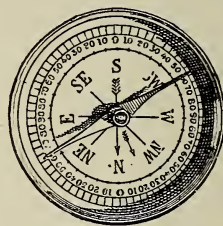
MAGNETIC POCKET COMPASSES



3510



3512



3514

3510. Pocket Compass, Brass, watch pattern, paper dial.

	Size, in Inches,	$1\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{3}{4}$
Each		\$.20	\$.25	\$.30

3512. Pocket Compass, Brass, watch pattern, metal dial.

	Size, in Inches,	$1\frac{9}{16}$	$1\frac{3}{4}$	2
Each		\$.40	\$.45	\$.50

3514. Pocket Compass, Brass, watch pattern, metal dial, stop to needle.

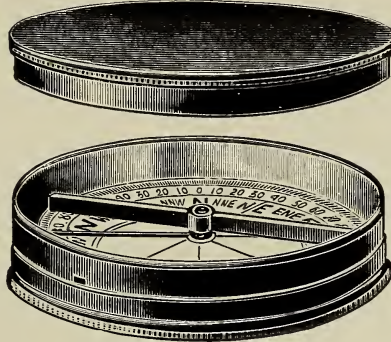
	Size, in Inches,	$1\frac{9}{16}$	$1\frac{3}{4}$	2
Each		\$.50	\$.55	\$.60



TECHNICAL SUPPLY COMPANY SCRANTON, PA.



MAGNETIC POCKET COMPASSES



3511A

3511A. Pocket Compass, stout gilt brass case, pull-off cover, enameled card dial, tempered edge-bar needle, jeweled cap and stop, beveled glass.

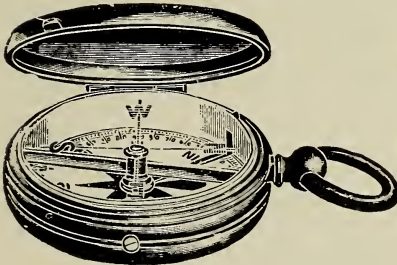
Size, in Inches, $1\frac{1}{2}$ 2 $2\frac{1}{2}$

Each	\$ 1.50	\$ 2.00	\$ 2.50
Dozen	17.75	22.00	26.50

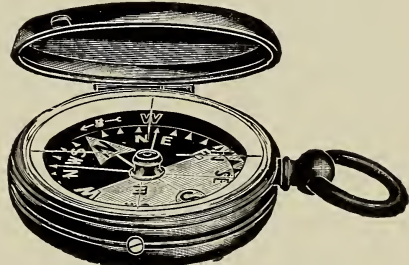
3511B. Pocket Compass, stout gilt brass case, pull-off cover, silvered-metal dial, tempered edge-bar needle, with jeweled cap and stop, beveled glass.

Size, in Inches, $1\frac{1}{2}$ 2 $2\frac{1}{2}$

Each	\$ 2.50	\$ 2.75	\$ 2.75
Dozen	22.75	22.75	31.50



3512A



3512B

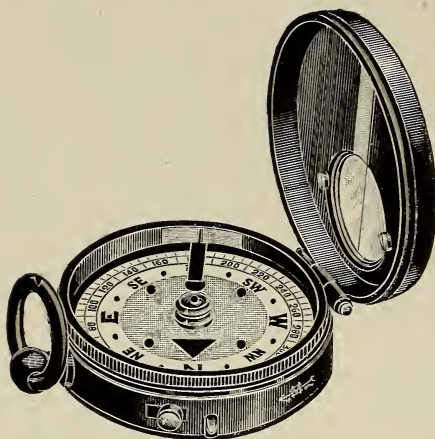
Extra Heavy Strong Cases

3512A. Strong bronzed metal case with jointed lid, silvered metal dial, best hardened and tempered edge-bar needle, $1\frac{1}{2}$ ".....each, \$4.00
2" diameter, 2" each, 6.00

3512B. Strong bronzed metal case with jointed lid, floating aluminum dial, $1\frac{1}{2}$ " each, 5.50
2" diameter, 2" each, 6.00

3512C. Strong bronzed metal case with jointed lid, floating aluminum dial, with luminous points N & S and luminous line in lid of case, $1\frac{1}{2}$ " each, 6.25
2" each, 7.75

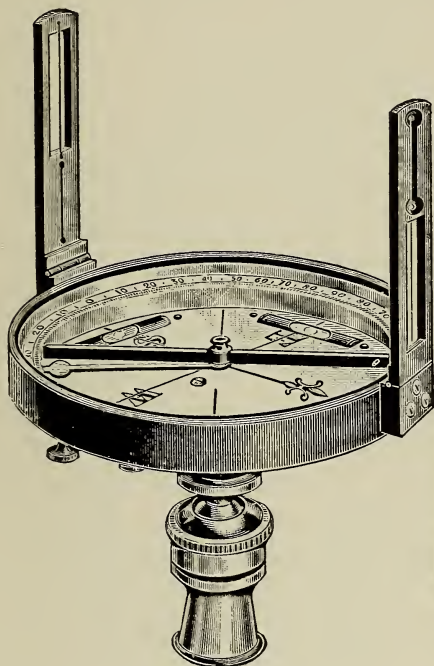
MILITARY AND NIGHT-MARCHING COMPASSES



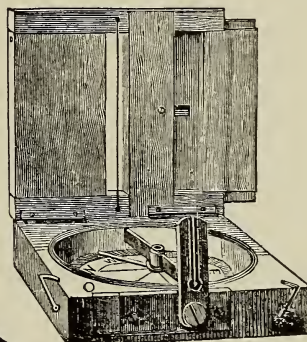
3525

3525. Night Marching Compass, with graduated aluminum dial, luminous center, in bronzed case, with sight in lid.....each, \$11.25

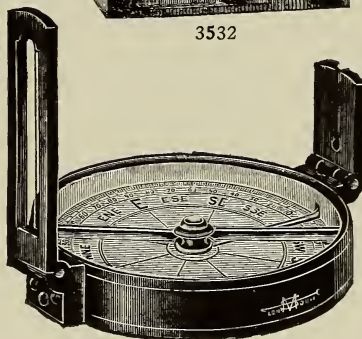
SURVEYING AND SIGHT COMPASSES



3530



3532



3535

3530. Surveying Compass with folding sights on revolving ring, with vernier and scale for magnetic variations, with $3\frac{1}{2}$ -inch bar needle, jeweled ball-and-socket mounting for Jacob staff, complete in mahogany case each, \$25.00
3531. Same as No. 3530, but with $4\frac{1}{2}$ -inch bar needle.....each, 34.00

SIGHT COMPASSES

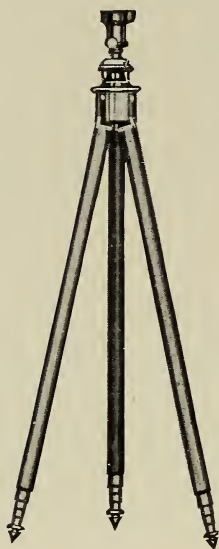
3532. Mahogany case, sight in lid and folding sight, card dial, bar needle, jeweled.

	Size of Bar, in Inches,	$2\frac{1}{2}$	3
Each		\$7.00	\$8.00

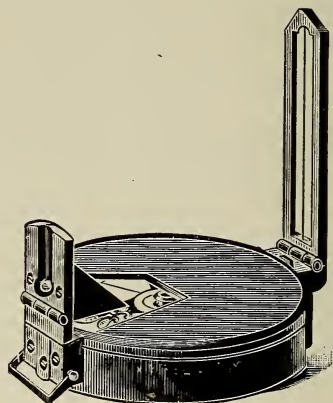
3535. Bronzed metal sight compass with cover, untarnishable brass, silvered metal dial, bar needle, jeweled.

	Size of Bar, in Inches,	2	$2\frac{1}{2}$	3
Each		\$6.00	\$7.00	\$8.00

PRISMATIC SURVEYING COMPASSES



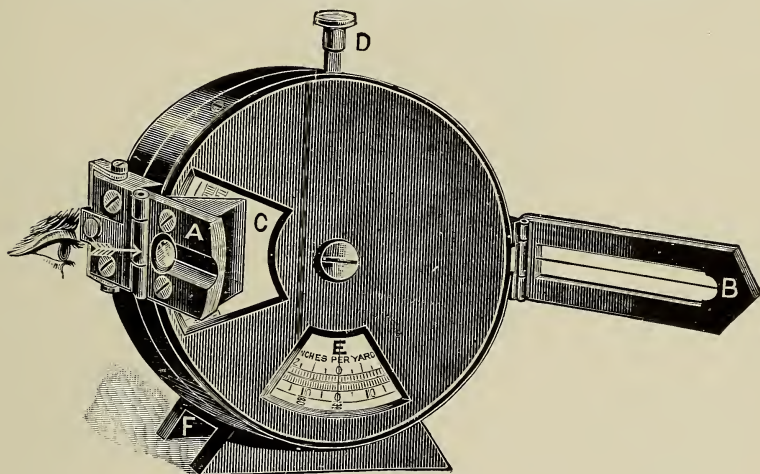
3543



3541

3540. Plain Prismatic Compass, card dial, jeweled center, morocco case
 2 inches each, \$15.50
 3541. Hutchinson's Improved card dial, jeweled center and stop, with
 3-inch sole leather sling case.....each, 19.50
 3541A. Same as 3541, but 4" diam., 4-inch sole leather sling case.each, 23.25
 3543. Metal Collapsible Tripod with ball and socket for above. Opens
 to 53 inches, closes to 16½ inches.....each, 13.50

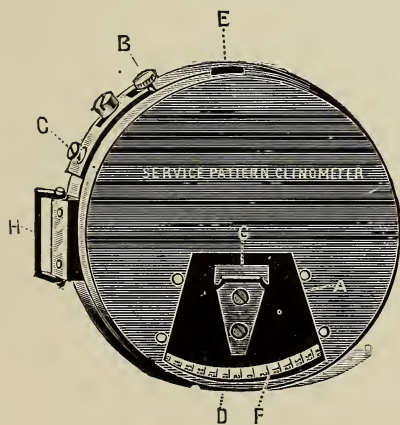
PRISMATIC SURVEYING COMPASSES



3545

3545. 3" Clinometer combined with prismatic compass, with floating card compass dial, jeweled center; clinometer scale graduated 0° to 180° with scale of rise and fall of inches per yard, folding prism and metal sight, bronzed metal case.....each, \$34.00
- 3545A. 3" same as 3545, but compass fitted with aluminum ring and metal altitude clinometer dial.....each, 48.00

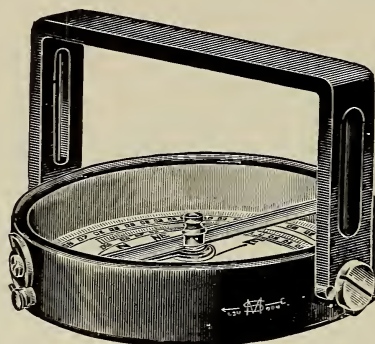
SERVICE PATTERN CLINOMETER



3548

3548. This instrument is used in military operations for measuring angles of elevation or depression. It is also of great service in the question of transport of guns and stores, as by the knowledge of the dip or rise in a hill, the officer will know whether he has sufficient horsepower to draw the load and can regulate that before starting each, \$22.00

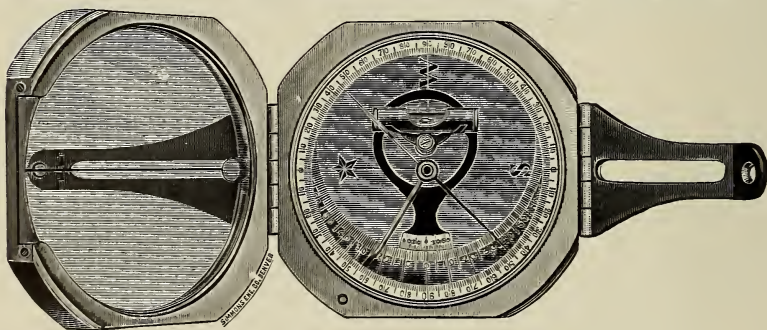
SIGHT COMPASSES AND CLINOMETERS



3552

3552. Bronzed Sight Compass and Clinometer, silvered-metal dial, graduated to 1 degree, edge-bar needle with stop. The sights are pivoted to the compass box and connected by a crossbar, which is turned down to serve as foot when the instrument is used as a Clinometer. The Clinometer gives inclinations in inches per yard and in degrees. Diameter 3 inches. In leather flap case each, \$10.75

THE BRUNTON PATENT POCKET TRANSIT

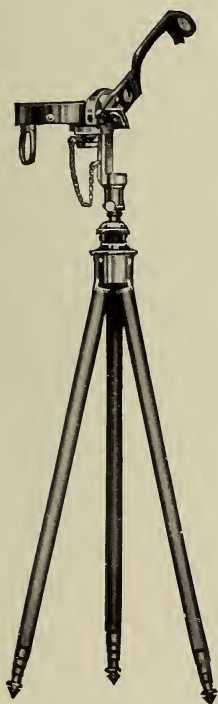


3560

3560. A complete, accurate, and reliable pocket instrument. The case is made of aluminum, $2\frac{3}{4} \times 2\frac{3}{4} \times 1$ inch. Weight of instrument about 8 ounces. With full directions.....each, \$25.00

THE VERSCHOYLE POCKET TRANSIT

In Aluminum Body with Enlarged Vertical Arc and Vernier
Reading to Ten Minutes



3564

Weight on tripod complete with angle piece... $2\frac{3}{4}$ lbs.
 Length when open 53 in.
 Length when closed $16\frac{1}{2}$ in.
 Fitted with ball and socket mounting (Jacob Staff).
 Weight of instrument (aluminum case)..... $9\frac{1}{2}$ ozs.
 Length $4\frac{1}{2}$ in.
 Width $3\frac{3}{8}$ in.
 Depth $1\frac{1}{4}$ in.
 Length of sight arm when opened..... $5\frac{1}{2}$ in.
 Length of needle $2\frac{3}{4}$ in.

This instrument combines the useful features of Abney Level, Prismatic Compass, and Clinometer. Designed by a mining engineer of practical experience in the use and possible application of the various forms of instruments intended for preliminary survey.

The distinguishing feature of the instrument is that, owing to its novel construction, only one observation is necessary to obtain both the magnetic bearing and the vertical angle of any distant point. It is also specially adapted for use in difficult positions, such as are always liable to occur in filling in the rougher details in a mining survey. For rapid topographical work and working in constrained positions, the fact that half the labor is saved should be of interest to those who have to use this class of instrument.

Another important point is that its efficiency is not determined by the length of the diameter of the compass as is the case with the ordinary prismatic compass. With even a small instrument the same length of sight is obtained as would be obtainable with a 6" or 7" prismatic compass.

As a thoroughly serviceable instrument it is worthy of special notice.

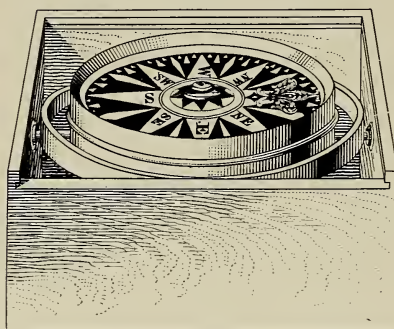
It is not a complicated delicate instrument liable to derangement or deterioration.

There are no reflectors or mirrors used other than the prism, which is protected and fastened in a secure manner.

3562. Verschoyle Transit for hand use in sling leather case.....each, \$35.00

3564. Same as No. 3562, but with angle piece and collapsible metal tripod, ball and socket fitting.....each, 44.00

BOAT COMPASSES



3567

3567. Boat Compasses in ash boxes with sliding lids, card dials, needles mounted with agate centers.

	Per Inch,	Box Measure,	4	5	6	7	8	9	10
Each	.....	.....	\$ .90	\$.75	\$.75	\$.75	\$.75	\$.75	\$.75

3567A. Boat Compasses in mahogany boxes with sliding lids, card dials, needles mounted with agate centers.

	Size, in Inches,	4	5	6	7	8
Each	.....	\$5.00	\$5.50	\$6.50	\$7.75	\$9.25

3568. Brass case deep boat Compass, pull-off lid, floating card dial, jeweled cap.

	Size, in Inches,	2½	3
Per dozen	.....	\$19.50	\$23.00

3568A. Brass case deep boat Compass, same as No. 3568, gimbaled.

	Size, in Inches,	3	3½
Each	.....	\$4.00	\$5.00

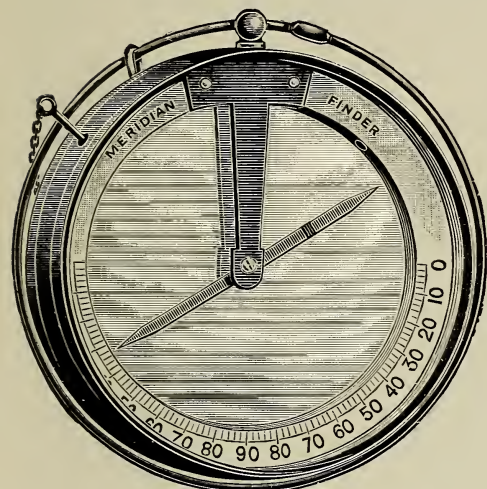
3568B. Mahogany box boat Compass, floating card dial, jeweled cap, gimbaled.

	Size, in Inches,	3	3½
Each	.....	\$4.00	\$4.50

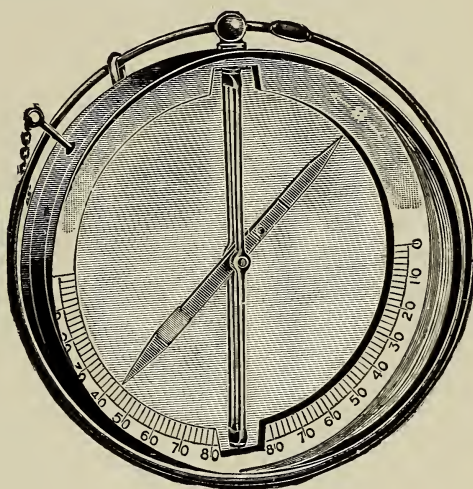
3568C. Boat Compass, same as No. 3568B, in best quality mahogany box, with hinged lid.

	Size, in Inches,	3	3½
Each	.....	\$7.00	\$7.75

MINERS' COMPASS OR DIPPING NEEDLE



3570



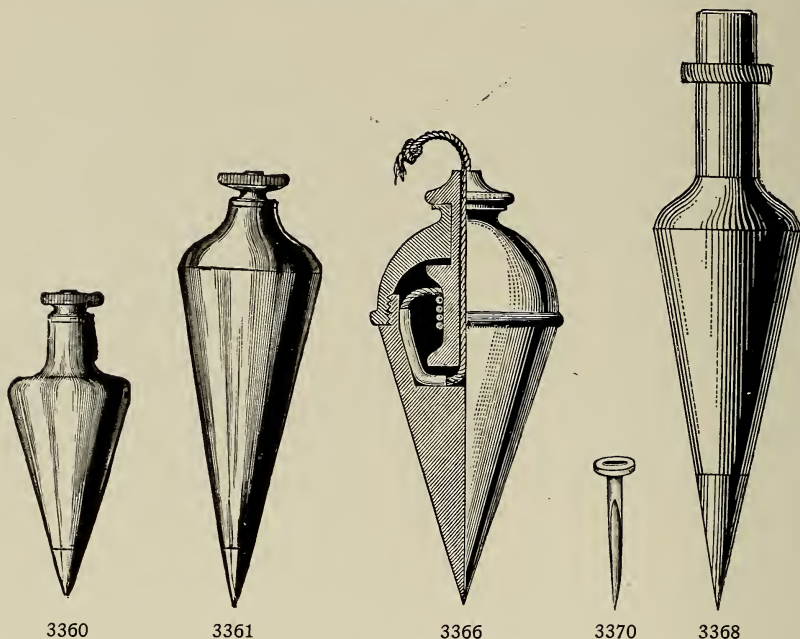
3575

In the hands of the prospector, the Miners' Compass or Dipping Needle proves a serviceable guide to the discovery and location of magnetic iron ore. In this instrument the magnetic needle is carefully balanced upon a horizontal axis within a graduated circle, and in which the needle will be found to assume a position inclined to the horizon. This angle of deviation is called the inclination or dip, and varies in different latitudes, and even at different times in the same place. Hence, in reading the dip for the suspected presence of magnetic iron ore, the observer must not only be governed by his instrument, but must also draw into requisition his knowledge of the general geological formation of the place of his survey; and dependent on his experience, he will be enabled to approximate as to the probable mass and depth of the ore from the surface. When used for tracing ore the server should hold the ring in his hands and keep the needle north and south, standing with his face to the west. The inclination of the needle as read off on the graduated scale will show the dip. If the compass is held horizontal it serves of course as an ordinary compass.

3570. 3" Dip Needle Mining Compass in velvet-lined case.....each, \$12.00

3575. Same as No. 3570, but Norwegian pattern, needle gimbaled..each, 20.00

PLUMB-BOBS



- | | | |
|-------|---|--------------|
| 3360. | Brass, Steel Pointed, weight 6 ounces..... | each, \$1.25 |
| 3361. | Brass, Steel Pointed, weight 8 ounces..... | each, 1.50 |
| 3362. | Brass, Steel Pointed, weight 10 ounces..... | each, 1.80 |
| 3363. | Brass, Steel Pointed, weight 12 ounces..... | each, 1.90 |
| 3364. | Brass, Steel Pointed, weight 14 ounces..... | each, 2.20 |
| 3365. | Brass, Steel Pointed, weight 16 ounces..... | each, 2.40 |
| 3366. | Brass, Steel Pointed, weight 10 ounces, with concealed reel, held
by friction in any position..... | each, 2.50 |
| 3368. | Brass, Steel Pointed, weight 14 ounces, with long neck..... | each, 2.25 |

STAKE TACKS

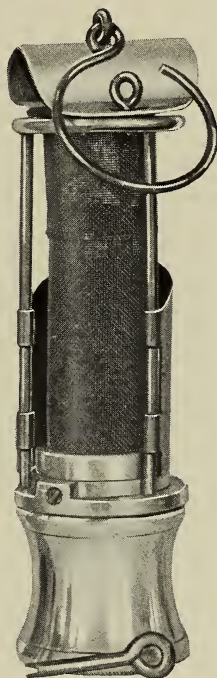
- | | | |
|-------|------------------------------|-------------------------|
| 3370. | Stake Tacks, galvanized..... | per 2-ounce box, \$.15 |
| 3370. | Stake Tacks, galvanized..... | per pound, .60 |

PLUMB-BOB CORD

- | | | |
|-------|--|------------------|
| 3375. | Plumb-Bob Cord, best linen; thin, medium, or thick.... | per yard, \$.02 |
| 3376. | Plumb-Bob Cord, best braided silk, medium, or thick.. | per yard, .06 |

“BOSSES” IMPROVED DAVY SAFETY LAMP

With Wind Shield and Gas Indicator



3582

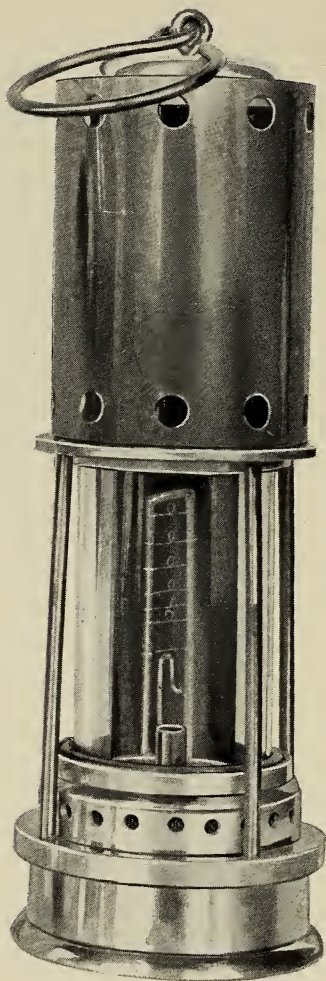
This lamp is the preferable type of Davy Safety Lamp for testing for the presence of gas. It is extremely sensitive in presenting the same gaseous condition within as exists outside the lamp. Has aluminum tank, brass wind shield (movable), and lock. This particular model is recommended for use among mine officials.

- | | |
|-----------------------------|--------------|
| 3582. Complete, brass | each, \$3.25 |
| 3583. Aluminum | each, 3.50 |
| 3584. Extra Gauzes | each, .25 |



AMERICAN BEARD DEPUTY SAFETY LAMP

(Marsaut Type)



3587



AMERICAN BEARD DEPUTY SAFETY LAMP

(CONTINUED)
(Marsaut Type)

An official's lamp for testing purposes. When fitted with a gas indicator it will show readily, even to the inexperienced eye, as low as $\frac{1}{2}$ of 1 per cent. of gas, and this with the normal working flame. With this lamp it is not necessary to draw down the flame to make a test for gas, as all indications are shown with the normal flame. The lamp burns a good quality of any non-volatile oil, as sperm or cotton-seed oil, or the "Eureka" safety lamp oil.

Air is admitted to the combustion chamber through protected openings below the glass. This produces an upward circulation and a uniform condition in the lamp corresponding to that of the outside air. The security of the lamp is increased by the double gauze chimney which affords a free discharge, at the same time maintaining an effective mantle of burnt air in the top of the lamp. It is supplied with a glass $3\frac{1}{2}$ inches high, having a black enameled strip that affords a good background to observe the flame.

The lamp is constructed of light weight aluminum alloy and when fitted with copper gauze is non-magnetic; it is neat and attractive in appearance; weighs 1 pound 9 ounces, and is $10\frac{1}{4}$ inches high.

This lamp has been adopted by gas and telephone companies for use in tunnels and conduits where gas may at any time accumulate. It is also used by the United States Navy for use in examining coal bunkers, to avoid accidents due to the accumulation of gas.

FOR AN OFFICIAL'S TESTING LAMP the unbonneted model with gas indicator is recommended. This is usually furnished with a lock, though a lead seal lock will be furnished if desired.

FOR A WORKING LAMP FOR THE MINES the bonneted model, without indicator is recommended. The lead seal lock permits of the lamp being opened in an emergency, but in doing so the seal is broken.

PRICE LIST

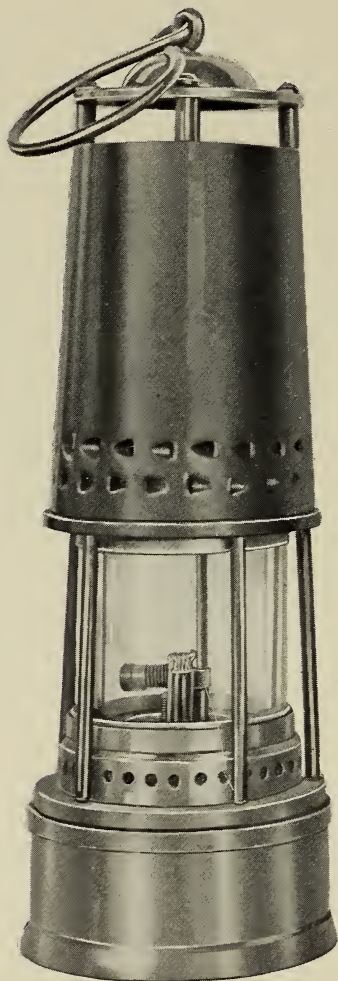
3587. Am. Beard Deputy, Marsaut type, with Gas Indicator, unbonneted	each, \$6.00
3587A. Same, bonneted, each.....	6.25
3587B. Am. Beard Deputy, Marsaut type, without Gas Indicator, unbonneted, each	5.00
3587C. Same, bonneted, each	5.25

REPAIR PARTS AND SUPPLIES

B. M. Gas Indicators each.....	\$1.25	Bench Presses for seal locks, each	\$5.00
Glasses, each	.25	Cutting nippers for seals, each..	1.00
Burners, each	.10	Gauze Brushes, No. 1 half round, bristle, each.....	.30
Burner Retaining Rings, each..	.10	Gauze Brushes, No. 2 bristle, each	.20
Oil Vessels, complete.....	.75	Gauze Brushes, No. 1 round bristle	.30
Gauzes, small inner, steel, each.	.15	Gauze Brushes, No. 1 round metal	.30
Gauzes, small inner, copper, each	.25	Oil, 1 gal. cases, per gal.....	1.00
Gauzes, large outer, steel, each..	.15	Oil, 10 gal. cases, per gal.....	.80
Gauzes, large outer, copper, each	.25	Oil, barrel lots, per gal.....	.75
Washers, asbestos, doz.....	.10		
Wicks, round, braided and filled, dozen	.10		
Lead seals for locking, per 1,000	2.50		
Hand Presses for seal locks, each	5.00		



THE AMERICAN IMPROVED SAFETY LAMP



3588

New Model No. 26



THE AMERICAN IMPROVED SAFETY LAMP MODEL No. 26

This lamp has been designed to meet the demand for a domestic safety lamp burning naphtha as fuel and fitted with an internal igniter. It may be fitted with either a magnetic or key lock. In designing this lamp the object has been to keep the number of parts down to the minimum; to make these parts so that should any part be omitted in putting the lamp together such omission could be readily detected, and to arrange them so that the lamp could be quickly taken apart for inspection of the gauze, etc. It is sturdy in construction and will give long service with very low maintenance expense.

Here are some of the particular advantages of this lamp :

(a) A moisture-proof internal igniter which permits lamp being safely relighted in a gaseous atmosphere. This is an important economical feature, as it enables the miner to immediately relight his lamp should it be accidentally extinguished.

(b) Shows about 50 per cent. more light than the old style oil-burning lamps.

(c) Burning naphtha as fuel, the gauze does not become soot laden as is the case with oil-burning lamps.

(d) Magnetic lock for working lamps prevents the lamp being opened by an unauthorized person, thus endangering the lives of fellow workers.

(e) Key locks for officials' lamps.

(f) Cost of operation and maintenance about 75 per cent. less than for oil lamps.

(g) Continuous cleaning and picking of wick during the burning of the lamp, which is annoying and causes a loss of time to miner, is avoided.

(h) Safety. This lamp with baffle ring and bonnet has been tested in high velocity currents containing 8.5 per cent. of gas to 2,500 feet per minute. The flame was scarcely affected. In still atmosphere and low velocity currents the flame will extinguish when gas is present in dangerous quantities.

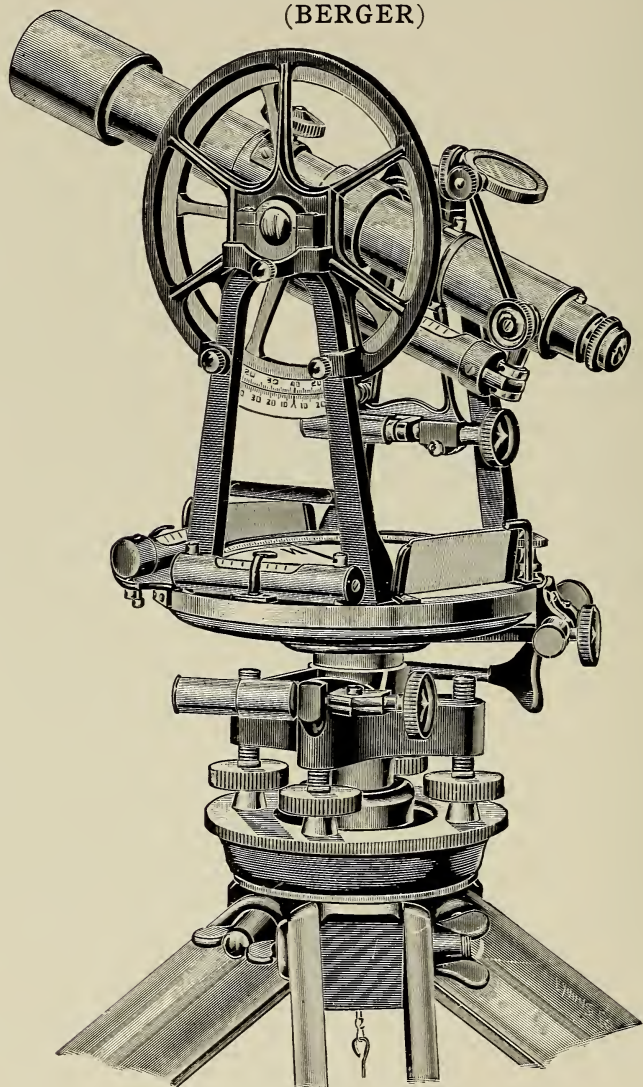
(i) This lamp is very sensitive to gas and will show as low as $\frac{3}{4}$ of 1 per cent. to the experienced eye with the flame turned low. The wick is adjusted with a threaded screw.

Price List

3588. Am. Improved Safety Lamp, brass and steel.....	each, \$ 3.25
3589. Combination key, filling hole and burner wrench.....	each, .25
3590. Extra Globes.	each, .10
3591. Magnets for opening magnetic locks.....	each, 10.00

Prices for other repair parts and supplies on request.

ENGINEERS' MOUNTAIN AND MINING TRANSIT
(BERGER)



BERGER'S MOUNTAIN TRANSIT 3905B



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.

ENGINEERS' MOUNTAIN AND MINING TRANSIT (CONTINUED)

5 $\frac{1}{8}$ " Circle, weight about 10 lbs.

We strongly recommend this instrument for use where a lighter instrument is desirable for land surveying, railroad mining, and underground work, etc., of all kinds and where a graduation reading direct to single minutes and to 30" and 20" by estimation is preferred. Every part is made with great care and the aperture, focal length and power of the telescope are properly related to each other and to the size of the plate to make it a very compact, portable, and accurate transit.

3904B. Berger Mountain and Mining Transit.

(See illustration on opposite page, but without Davis solar screen.)

Specifications

Horizontal Circle 5 $\frac{1}{8}$ -inch, graduated on heavy inlaid ring of solid silver, double opposite verniers read to minutes, two rows of figures 0 to 360 in opposite direction; figures inclined in the direction verniers should be read; verniers at 30° to line of sight.

Vertical Circle 5-inch, graduated on solid silver, double verniers read to minutes.

Telescope 10 $\frac{1}{4}$ -inch, objects erect, aperture 1 $\frac{1}{4}$ -inch, power 18 diameters.

Stadia Wires, fixed, in ratio 1 : 100.

Spirit Level 5 $\frac{1}{2}$ -inch, with clamp and tangent screw to telescope.

Plate Levels of standard length and very sensitive.

Gradiometer attachment.

Magnetic Needle 3 $\frac{3}{4}$ -inch, no index error.

Shifting Center, to set instrument exactly over a given point.

Punch Mark on top of telescope, to enable to center the transit from a point above.

Standards leatherized.

Extension tripod.

The mahogany case has a leather strap, hooks, etc. It contains a sunshade, a wrench, a screwdriver, an adjustable plumb-bob, a magnifying glass, an adjusting pin, and weighs about 7 pounds.

Weight of transit about 10 pounds; weight of extension tripod from 9 to 11 $\frac{1}{4}$ pounds.

Price, \$260.00

3905B. Berger Mountain and Mining Transit as illustrated on opposite page, *but with* Davis Solar Screen. Comprising Plain

Prism with colored glass and screen. Price.....\$274.00

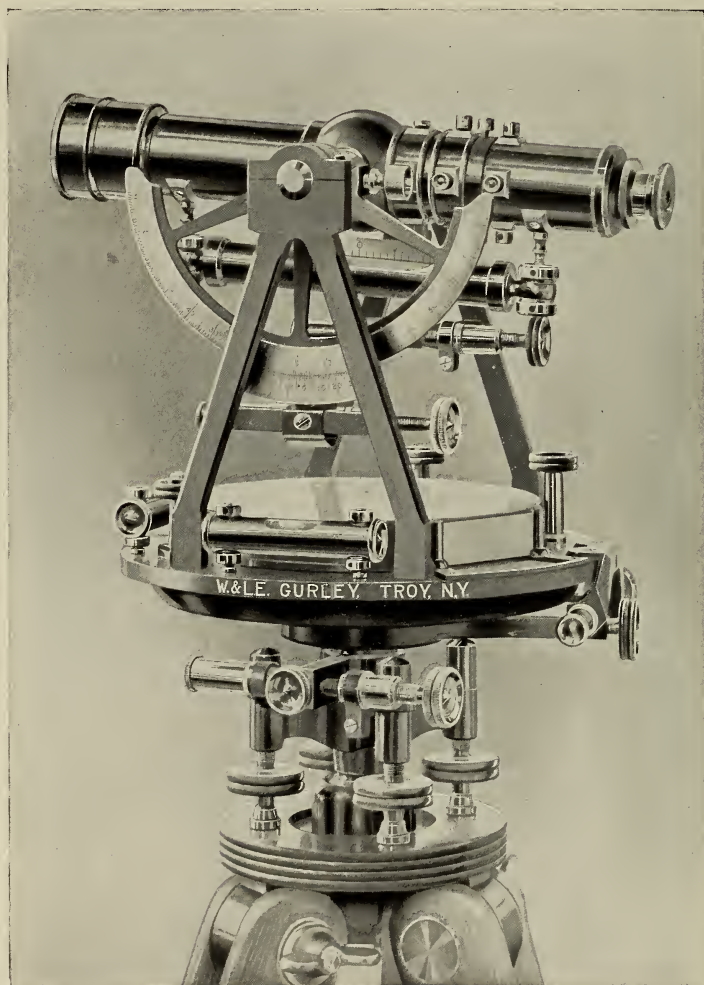
Extras for Mountain Transit 3904B and 3905B.

Variation Plate adapted for all declinations E or W, \$10.00. If this feature is desired, transit must be made to order.

Striding level placed on telescope axis.

LIGHT MOUNTAIN TRANSITS

Two Verniers to Limb



3009G

Light Mountain Transit, \$186.00.



LIGHT MOUNTAIN TRANSIT NO. 3900G

(CONTINUED)

(Made By W. & L. E. Gurley)

Horizontal Limb.—Diameter inside graduated edge 5.65 inches, graduated on sterling silver, reading to single minutes by two double opposite verniers placed at an angle of 30 degrees to line of sight, and figured 0 to 90 each way inner row, and 0 to 360 outer row.

Plate.—With needle 4 inches long, compass circle graduated on upper surface to half degrees and on inner edge to whole degrees, figured on upper surface 0 to 90 each way. Variation arc for setting off magnetic declination. Beveled-edge plate glass over compass face and selected plate over verniers. Waterproof.

Telescope.—8½ inches long, object glass clear aperture 1 inch, power 20 diameters, erecting. Rack and pinion movements to both eyepiece and object slides. Platinum cross-wires and stadia wires.

Vertical Circle.—2½ inches radius, graduated on sterling silver, reading by one double vernier to single minutes. Vernier movable by tangent screw.

Level on Telescope.—5 inches long, with ground vial and scale.

Clamp and Tangent.—To telescope axis.

Leveling Head.—Of skeleton form, combining light weight with rigidity, with shifting center and dust caps over leveling screws. The tangent screws to telescope axis, limb, vertical arc vernier and leveling head have opposing springs.

The transit is securely packed in a mahogany box with lock and rubber tips. The box is enclosed in a sole leather case with handle and shoulder straps.

The box contains accessories of reading glass, 10-ounce adjustable plummet, shade for object glass, screwdriver, two adjusting pins and center pin wrench.

The tripod has extension legs, with wooden cap and strap for carrying. Weight of Transit about 10¾ pounds.

Weight of Tripod about 10 pounds.

Price complete as above described\$186.00

Accessories which may be supplied if desired when ordered with instrument as follows:

Aluminum Guard for Vertical Circle.....\$ 6.00

Beaman Stadia Arc extra, 15.00

Horizontal Limb figured 0-360 two rows in opposite directions,
inclined figures. No charge.

Diagonal Prism for eyepiece extra, 8.00

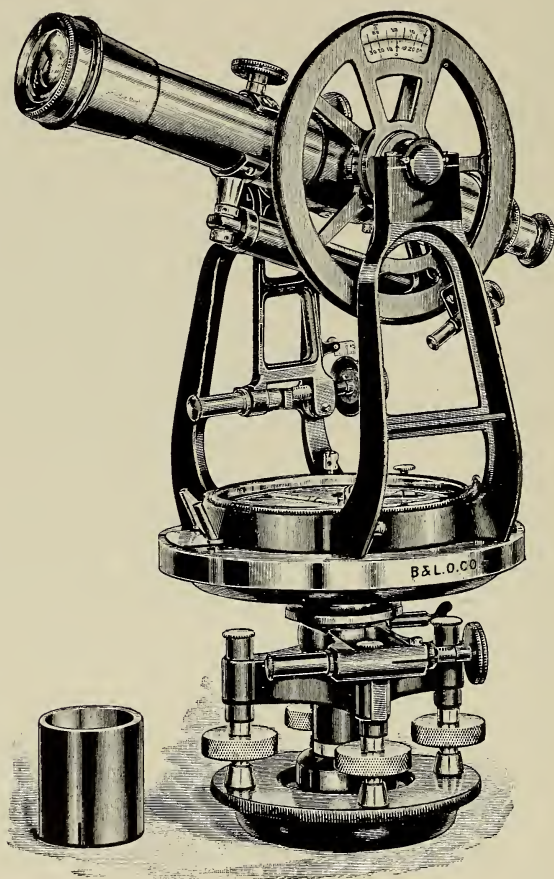
Reflector for cross-wires extra, 4.00

Detachable riding telescope extra, 25.00

or

Detachable side telescope and counterpoise extra, 25.00

BAUSCH & LOMB ENGINEERS' TACHYMETER



3908L



BAUSCH & LOMB ENGINEERS' TACHYMETER

(CONTINUED)

3908L. 5-inch Tachymeter with full vertical circle with open cover guard, as illustrated, or closed guard if preferred, consolidated U standards, 4-inch compass, continuous variation plate, cylindrical axis, solid silver graduations, interior focusing, waterproof construction	\$235.00
Gradiometer shown in illustration.....	5.00
Price complete as shown on opposite page.	
Same as above with double opposite verniers for vertical circle and reflectors	245.00
As above but with edge graduated, waterproof vertical circle, and one double vernier	240.00
As above with edge graduated vertical circle and double opposite verniers	250.00

5-INCH ENGINEERS' TACHYMETER

The features which differentiate the Bausch & Lomb tachymeter from all other azimuth instruments include the aluminum bronze U standards that are consolidated with the compass ring, the cylindrical telescope axis which they permit, the interior focusing system, the hermetically sealed tube, the permanency in the collimation adjustment, the solid silver graduations, the red and black figures for the horizontal limb, the fibrous bronze bar centers, the tensionless mounting for the telescope bubble, the length and sensitiveness of the plate bubbles, and the general excellence of design and workmanship which characterizes the whole instrument.

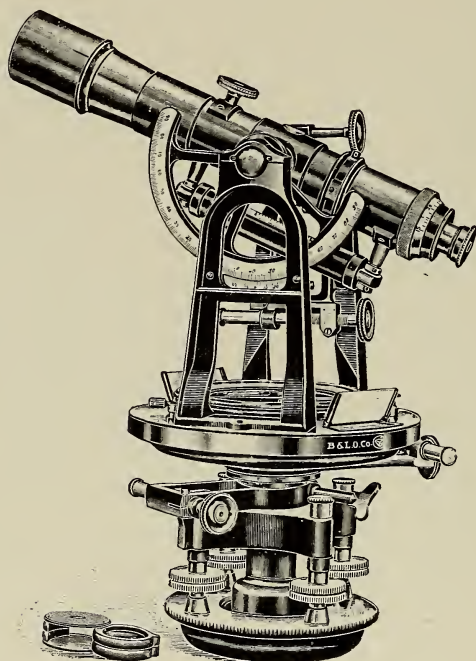
This model possesses the further advantage of being easily convertible for either solar or mining work of the highest order. The interchangeable auxiliary telescope for sighting in steep shafts may be readily adjusted to the same mount to which the solar is attached and in either case the counterpoise plummet serves equally well. The new auxiliary telescope is now provided with adjustments not only for parallelism and alinement, but with the mechanical facilities for the rapid setting of slope stakes on canal or railway embankments.

There is practically no limit in the other accessory apparatus with which this instrument may be supplied to accommodate it to special requirements.

Among these may be mentioned:

Orthoscopic oculars, $\times 20$ or $\times 30$, for inverting telescope, choice of either with instrument	each, \$ 5.00
Variable power eyepiece, erecting type, $\times 15$ to $\times 25$	12.00
Eyepiece prism with swivel moderating disc	6.50
Fixed Stadia 1 : 100	3.00
St. Andrew's cross for disappearing stadia.....	1.50
Disappearing Stadia	5.00
Illuminator tube, ...	each, 4.00
$3\frac{3}{4}$ in. 20-sec. Striding level	18.00
Equatorial Solar attachment	45.00
Interchangeable auxiliary telescope	35.00
Plummet counterpoise with loop adapter	5.00
Extension leg tripod	5.00

BAUSCH & LOMB SURVEYORS' TRANSIT



3915L

3915L. Surveyors' Transit with double opposite verniers, minute graduations, vertical clamp, telescope bubble, and vertical arc with adjustable vernier. This type of instrument may also be supplied with inverting telescope if desired and is regularly equipped with the continuous variation plate, $3\frac{3}{4}$ -inch tubular compass needle, German silver leveling screws with dust caps and shifting center\$200.00

Surveyors' Transit as above but with 5-inch vertical circle..... 205.00

Same as above but with cover guard for vertical circle..... 210.00

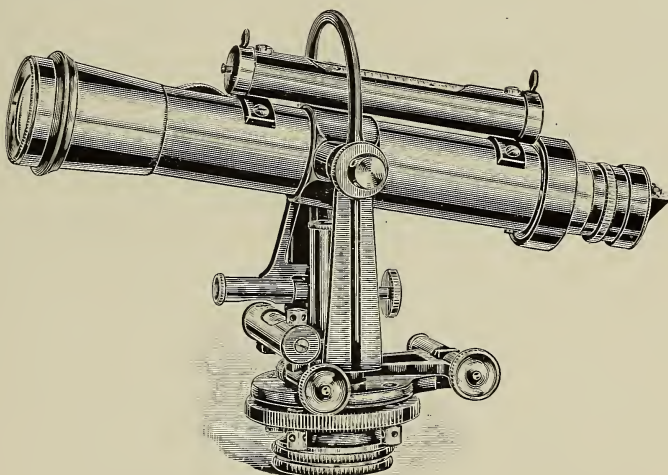
BAUSCH & LOMB SURVEYORS' TRANSIT (CONTINUED)

5-INCH SURVEYORS' TRANSIT No. 3915L

This popular model is readily adaptable to the widest variety of work in all the better class of surveys. The design is the result of a vast experience in precise instrumental construction, and the quality of workmanship is of the very highest order.

The aperture of the objective is $1\frac{1}{4}$ inches and is fully utilized, and the light gathering qualities of the telescope are unsurpassed. If fitted with the variable power eyepiece at an additional expense of \$12.00, the magnification can be regulated between 15 and 25 diameters to suit all light conditions.

Phosphor bronze of the hardest alloy is used and the standards are so reinforced that cylindrical telescopic axis may be employed. This arrangement not only greatly strengthens the principal working parts, but reduces wear and preserves adjustments.



Equatorial Solar Attachment	\$45.00
Eyepiece prism, attachable also to main telescope.....	6.50

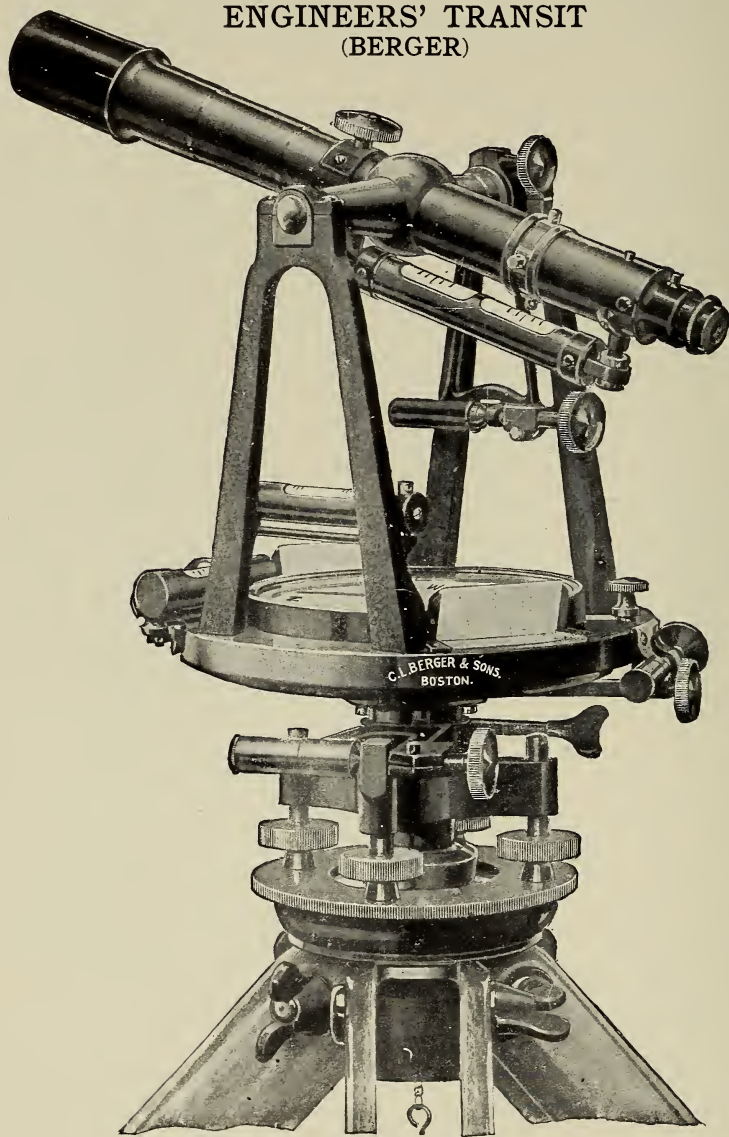
When the solar attachment is supplied for the rapid and accurate determination of the meridian we recommend the counterpoise plummet with loop adapter to preserve a perfect instrumental equipoise at an additional expense of \$5.00.



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



ENGINEERS' TRANSIT
(BERGER)





ENGINEERS' AND SURVEYORS' TRANSITS

No. 3917B, No. 3918B, 3920B are designed for engineering work of a high class, such as required in bridge building, waterworks, railroads, and for city and land surveying, etc.

3917B. Transit with Level Attachment* to Telescope, as shown on opposite page, with graduations on solid silver, fixed stadia wires as usually supplied.

Specifications

Horizontal Circle $6\frac{1}{4}$ -inch graduated on solid silver with double opposite verniers reading to minutes two rows of figures 0° to 360° in opposite directions, figures inclined in direction, verniers should read verniers at 30° to line of sight (unless ordered to be at 90°) verniers protected with fine plate glass and provided with glass shades.

Telescope $11\frac{1}{2}$ -inch, objects erect, aperture $1\frac{1}{4}$ -inch, power 24 diameters, well adapted for stadia work, eyepiece provided with improved screw arrangement for accurately focusing the cross-wires, telescope perfectly balanced, reverses at both ends, line of collimation correct for all distances.

Stadia Wires fixed in ratio 1 : 100.

Spirit Level $5\frac{1}{2}$ -inch with clamp and tangent screw to telescope.

Plate Levels of standard length and very sensitive.

Magnetic Needle $4\frac{1}{4}$ -inch (edge bar form having no index error).

Shifting Center to set instrument exactly over a given point.

Punch Mark on top of telescope, to enable to center the transit from a point above.

Standards leatherized.

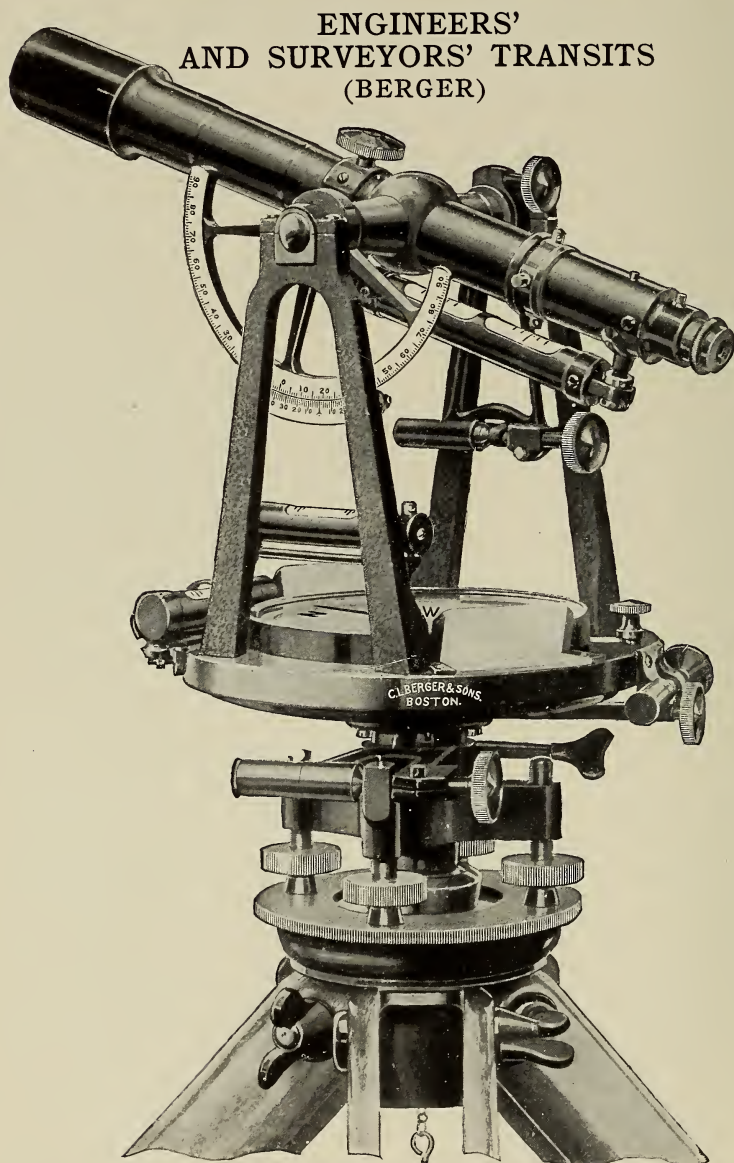
Full length split leg tripod.

Mahogany Case has leather strap hooks, etc. It contains a sunshade, wrench, screwdriver, plumb-bob, magnifying glass, adjusting pin, etc.

Weight of transit about $13\frac{1}{2}$ pounds.

Price, \$223

*With a level attachment of the above kind, good leveling can be done, as the power of the telescope and the sensitiveness of the spirit level are equal to that of most Wye levels.



3918B. Complete Engineers' and Surveyors' Transit



ENGINEERS' AND SURVEYORS' TRANSITS

(CONTINUED)

The size of horizontal circle in Transits Nos. 3917B, 3918B, and 3920B is such that it may be graduated to read 30" or 20" without fatigue to the eye.

Transit No. 3918B, as shown on opposite page, with verniers reading to minutes, graduations on solid silver, fixed stadia wires, etc. \$243.00

The verniers of this instrument can be placed at an angle of 90° to line of sight, if so ordered to be made specially.

Specifications

Horizontal Circle $6\frac{1}{4}$ -inch graduated on heavy inlaid ring of solid silver double opposite verniers read to minutes, two rows of figures 0° to 360° in opposite direction, figures inclined in direction verniers should read, verniers at 30° to line of sight (unless ordered to be at 90°). Verniers protected with fine plate glass and provided with glass shades.

Long Compound Centers with heavy flanges.

Vertical Arc 5-inch graduated on solid silver double verniers read to minutes.

Telescope $11\frac{1}{2}$ -inch, objects erect, aperture $1\frac{1}{4}$ -inch, power 24 diameters, well adapted for stadia work, eyepiece provided with improved screw arrangement for accurately focusing the cross-wires, telescope perfectly balanced, reverses at both ends, line of collimation correct for all distances.

Stadia Wires fixed in ratio 1 : 100.

Spirit Level $5\frac{1}{2}$ -inch with clamp and tangent screw to telescope.

Plate Levels of standard lengths and very sensitive.

Magnetic Needle $4\frac{1}{4}$ -inch (edge bar form having no index error).

Shifting Center, to set instrument exactly over a given point.

Punch Mark on top of telescope to enable to center the transit from a point above.

Standards leatherized.

Full length split leg tripod.

Mahogany Case has leather strap, hooks, etc. It contains a sunshade, wrench, screwdriver, plumb-bob, magnifying glass, adjusting pin, etc.

Weight of transit about $13\frac{1}{2}$ pounds.

Price, \$243.00.

Extras for Transits Nos. 3917B, 3918B, 3920B.

Gradienter attachment \$ 5.00

Variation plate, to set off all declinations, E or W..... 10.00

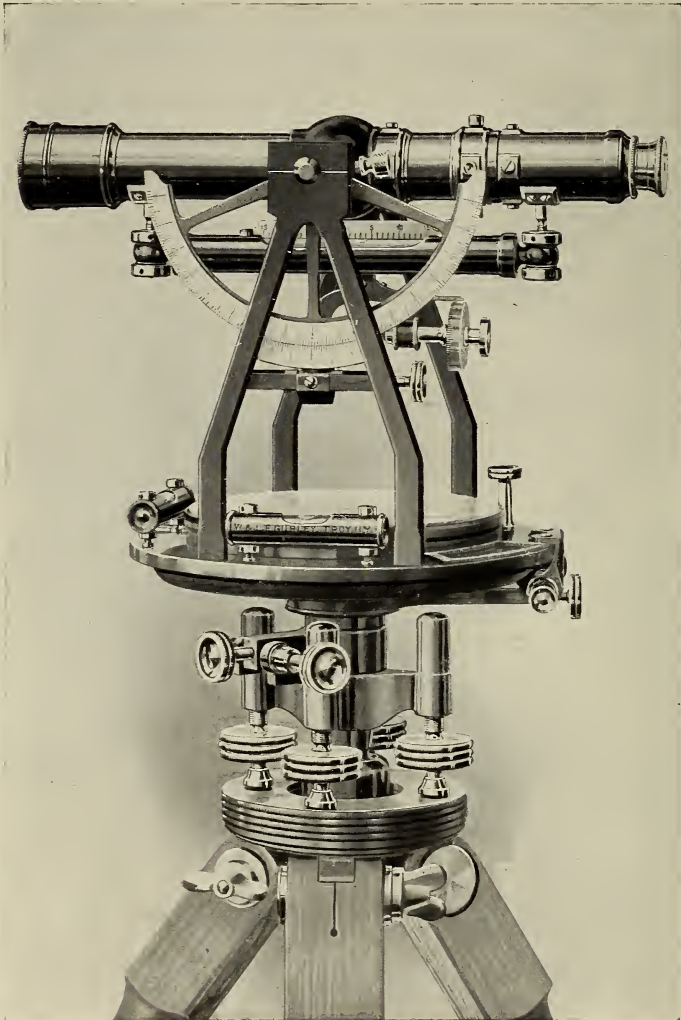


TECHNICAL SUPPLY COMPANY
SCRANTON, PA



ENGINEERS' TRANSITS

Two Verniers to Limb



3918G



ENGINEERS' TRANSIT No. 3918G—Continued (GURLEY)

Horizontal Limb.—Diameter inside graduated edge 6.7 inches graduated on sterling silver reading to single minutes by two double opposite verniers placed at an angle of 30 degrees to line of sight and figured 0 to 90 each way inner row and 0 to 360 outer row.

Plate.—With needle 5 inches long, compass circle graduated on upper surface to half degrees and on inner edge to whole degrees, figured on upper surface 0 to 90 each way. Beveled-edge plate glass over compass face and selected plate over verniers. Waterproof.

Telescope.—11 inches long, object glass clear aperture $1\frac{3}{16}$ inches, power 26 diameters, erecting. Rack and pinion movements to both eye-piece and object slide. Platinum cross-wires.

Vertical Arc.—Three inches radius graduated on sterling silver, reading by one double vernier to 30 seconds, vernier movable by tangent screw.

Level on Telescope.— $7\frac{7}{8}$ inches long, with ground vial and scale.

Gradiometer.—Combined with clamp and tangent to telescope axis.

Leveling Head.—Of skeleton form combining light weight with rigidity, with shifting center and dust caps over leveling screws. The tangent screws to telescope axis, limb, vertical arc vernier, and leveling head have opposing springs.

The transit is securely packed in a finely finished mahogany box with lock, strap, and rubber tips.

The box contains accessories of reading glass, 10-ounce plummet, shade for object glass, screwdriver, two adjusting pins, and center pin wrench.

The tripod has plain round legs, with wooden cap.

Weight of Transit about $17\frac{1}{2}$ pounds.

Weight of Tripod about 10 pounds

Price complete as above described.....\$198.00

Accessories which can be supplied when ordered with instruments, as follows:

Variation plate for setting off variation of needle, extra.....\$ 4.00

Beaman Stadia Arc, extra 15.00

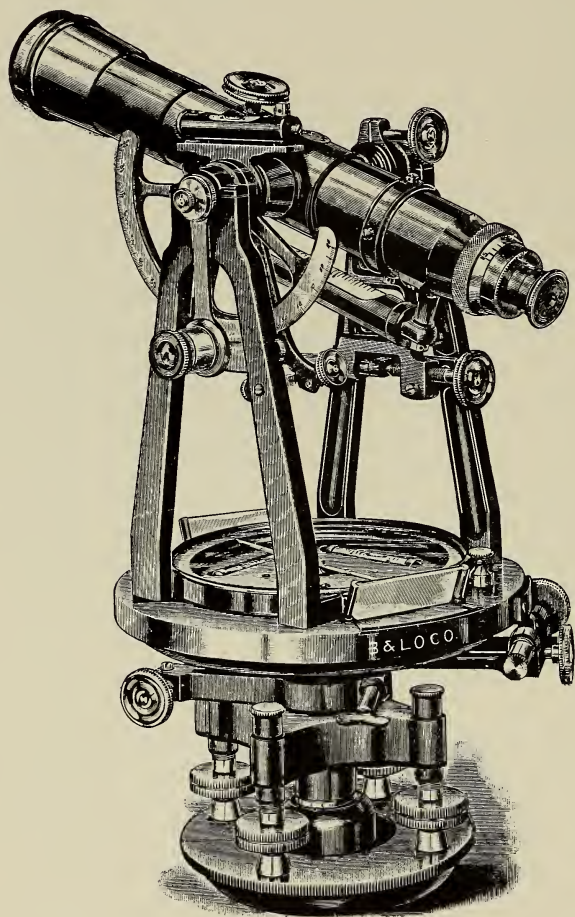
Split leg tripod instead of plain tripod, extra..... 2.00

Extension leg tripod instead of plain tripod, extra..... 5.00

Stadia wires in addition to plain cross-wires, no charge.

Limb figured 0-360 two rows, in opposite directions, inclined figures, no charge.

BAUSCH & LOMB MUNICIPAL TRANSIT



3918L



TECHNICAL SUPPLY COMPANY SCRANTON, PA.

BAUSCH & LOMB MUNICIPAL TRANSIT (CONTINUED)

3918L. 6-inch Transit with double opposite verniers, with glass reflectors, solid silver graduations with either erecting or inverting telescope as desired, 4½-inch tubular compass needle, continuous variation plate, 25-sec. telescope bubble, extra long vertical axis and with standards sufficiently high to permit plunging the telescope at the objective end. Complete with vertical arc and the usual accessories\$215.00

The variable power eyepiece × 16 to × 27, if desired.....	12.00
Single attached magnifier for vertical arc.....	7.50
Control bubble with tangent adjustment if required.....	18.00

Price complete as illustrated, including split leg tripod, etc.....\$252.50

Any of above accessories may be rejected and others substituted with an appropriate revision in the prices.

6-INCH MUNICIPAL TRANSIT NO. 3918L

For park commissions, city surveys, and engineering work of the higher order, where an especially accurate and stable instrument is desired, and one in which the telescopic attainments are of unusual character, this instrument is to be recommended.

The long and sensitive needle, the large vernier openings, the legible graduations, and the light gathering qualities of the telescope make this instrument suitable for coal mine surveys or for metalliferous mines where the solar attachment is used for auxiliary sighting.

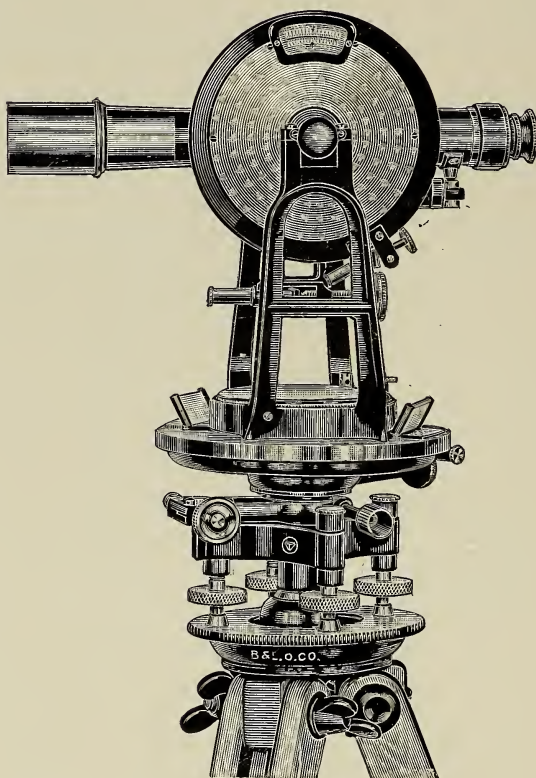
The illustration on the opposite page shows the instrument supplied with vertical arc, but a full vertical circle with cover guard and with either one, or two, double verniers may also be furnished if desired.

The telescope is 12½ inches long and when supplied with the erecting eyepiece has a magnification of 23 diameters. Aperture, 1½-inch; achromatic objective, adjustments for parallax and improved rack movement.

The horizontal circle is sufficiently large for 30-second or 20-second graduations. In the first case an extra charge of \$10 will be made, and in the second \$15. For the finer graduations, the fixed reading glasses will be found both convenient and desirable.

When supplied with the inverting type of telescope a new type of diagonal eyepiece with solar shade may be supplied at an additional charge of \$20. It is equally well adapted to stellar observations. With the proper accessory equipment this is one of the best instrumental types for the astronomical work necessary in a general engineering practice.

BAUSCH & LOMB MOUNTAIN TACHYMETER



3918LA



BAUSCH & LOMB MOUNTAIN TACHYMETER

(CONTINUED)

3918LA. 4½-inch Tachymeter with consolidated U standards, vertical circle, closed cover guard, as illustrated, or open guard if desired, with one double vernier at top, with 3-inch tubular compass needle, continuous variation plate; 3½-inch, 30-second telescope bubble and interior focusing telescope	\$220.00
Same with double opposite verniers for vertical circle.....	230.00
Same with edge graduated vertical circle, closed cover guard and one double vernier	225.00

4½-INCH MOUNTAIN TACHYMETER

This model has been especially designed to combine with reduced weight all of the refinements of manufacture that provide for efficient operation in the field.

The telescope is nearly 9 inches long, has an aperture of 1 inch and supplied with a new system of interior focusing which provides a permanency in the collimation adjustment not otherwise attainable.

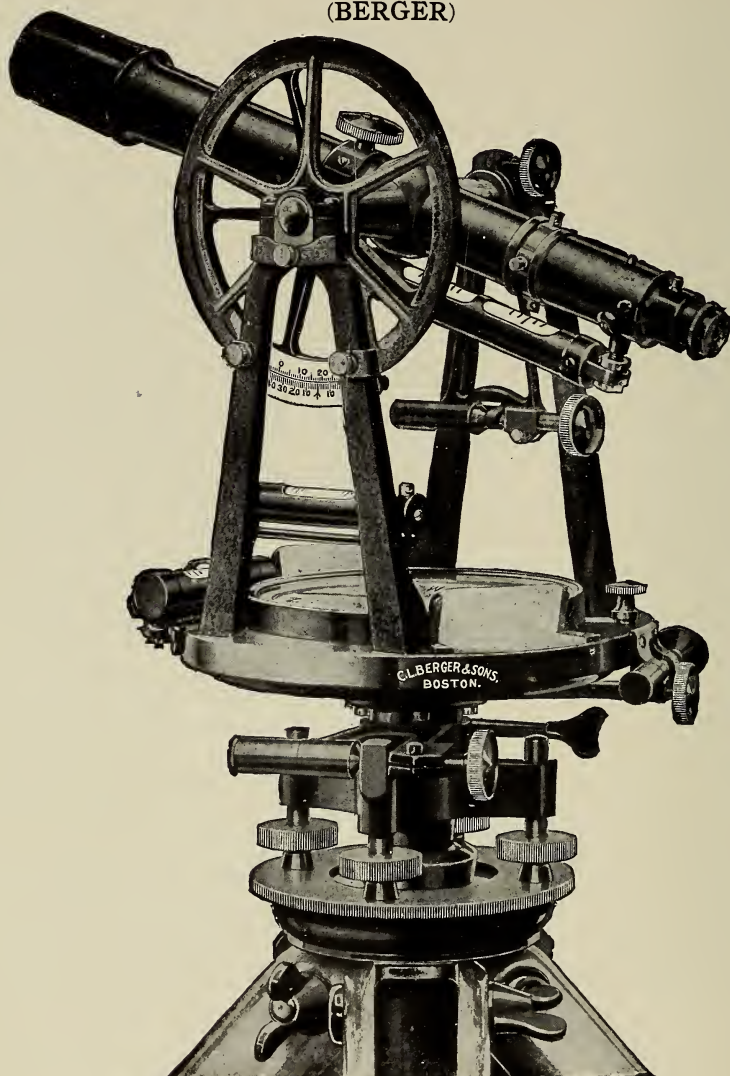
The graduations are on solid silver, to which a sufficient amount of nickel has been added to prevent tarnishing in the sulphurous smoke near railroads, mines, or industrial plants.

The plate bubbles are 1½ inches long and have a sensibility equal to that of the smallest angular subdivision on the plates. They are protected against accidents or sudden temperature changes under the glass cover of the compass. This permits the use of a longer vial than could be mounted on the plates and the method of mounting provides for a more delicate and responsive control in adjustment.

This instrument may be equipped with any type of vertical limb as specified above, and with a variety of accessory equipment including the control bubble, attached reading glasses, grader, 3-screw base, auxiliary telescope and counterpoise plummet for mining work, striding level, extension tripod, etc. We invite correspondence concerning such special requirements.

The standards are aluminum with bell metal journals; the leveling screws are German silver, the cups for same are secured against loss. The height is about 11 inches and the weight is 9½ pounds.

COMPLETE ENGINEERS' AND SURVEYORS'
TRANSIT
(BERGER)



3920B. Complete Engineers' and Surveyors' Transit



COMPLETE ENGINEERS' AND SURVEYORS' TRANSIT—Continued

This instrument is designed for engineering work of a high class, such as is required in bridge building, waterworks, and for city and land surveying.

Specifications

Horizontal circle $6\frac{1}{4}$ -inch graduated on heavy inlaid ring of solid silver double opposite verniers reading to minutes, two rows of figures 0 to 360 in opposite directions; figures inclined in the direction verniers should read; verniers 30° to line of sight (unless ordered to be at 90° . Verniers protected with fine plate glass and provided with glass shades).

Full Vertical Circle 5 inches graduated on solid silver, double verniers read to minutes and protected by an aluminum guard.

Telescope $11\frac{1}{2}$ -inch objects, erect aperture $1\frac{1}{4}$ -inch, power 24 diameters. Well adapted for stadia work, eyepiece provided with new screw arrangement for accurately focusing the cross-wires, telescope perfectly balanced reverses at both ends, line of collimation correct for all distances.

Spirit Level $5\frac{1}{2}$ inches with clamp and tangent screw to telescope.

Stadia Wires fixed in ratio 1 : 100.

Plate Levels of standard lengths and very sensitive.

Magnetic Needle $4\frac{1}{4}$ inches (edge bar form having no index error).

Shifting Center, to set instruments exactly over a given point.

Punch Mark on top of telescope, to enable to center the transit from a point above.

Standards leatherized.

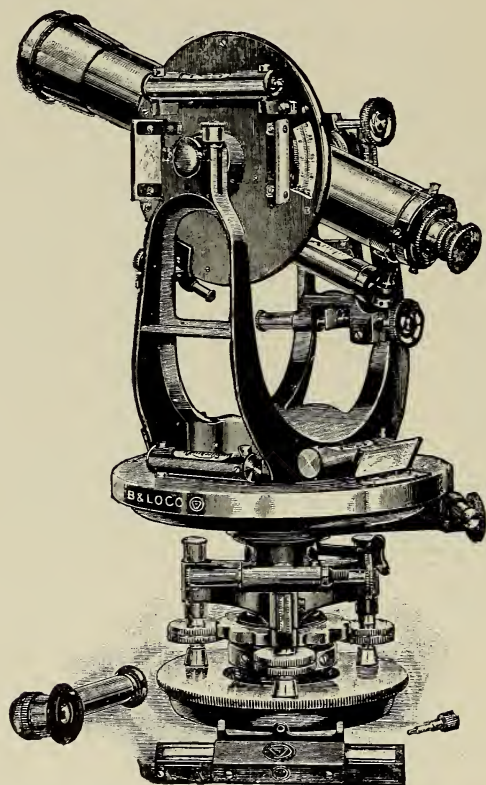
Full length split leg tripod.

The Mahogany Case has a leather strap, hooks, etc., and contains a sunshade, a wrench, screwdriver, adjustable plumb-bob, magnifying glass, an adjusting pin, etc.

Weight of transit about $13\frac{1}{2}$ pounds; weight of tripod about 9 pounds.

Price, \$255.00

BAUSCH & LOMB TUNNEL THEODOLITE



3920L



BAUSCH & LOMB TUNNEL THEODOLITE (CONTINUED)

3920L. 6-inch Theodolite with U standards, 12-inch telescope, erecting or inverting type as desired, and sealed against dust or moisture; achromatic objective, aperture $1\frac{1}{8}$ -inch, power $\times 24$, very sensitive telescope level vial with improved mounting, vertical circle with double opposite verniers and protected by closed Amplex diagonal eyepiece (for inverting telescope only).....	20.00
cover guard as illustrated, or open if desired.....	\$255.00
Control bubble with adjustable mount.....	8.00
Trough box compass with 4-inch tubular needle.....	15.00
B. & L. 3-screw base with shifting center.....	10.00

Price complete as illustrated, including split leg tripod and the usual small accessories\$308.00

This instrument may be furnished also with vertical arc only, an uncovered vertical circle or three other styles of protected vertical circle. Any of the above listed accessories may be rejected and others substituted at the discretion of the purchaser.

6-INCH TUNNEL THEODOLITE

For city surveys of extended magnitude and accurate delineation, for traverse work in primary control as well as for the more particular alignment surveys in submarine, railroad, irrigation, or mining tunnels, this instrument is to be recommended. The substantial substructure for the telescope insures accurate pointings and maintains adjustments in rough usage impossible with less sturdy designs.

When employed for tertiary triangulation the open axis, as shown in the illustration opposite, will be preferable, but the axis which is closed against dust, etc., will be supplied without modification in the base price. For accurate stadia work and for an assured accuracy in the observation of vertical angles the control bubble is now regarded as indispensable.

The size of this instrument permits the use of a telescope of superlative optical properties and for the higher grade work a finer system of graduation with attached reading glasses should be specified as selected from the following schedule:

For 30-sec. graduations, either limb, extra.....	\$10.00
For 20-sec. graduations, either limb, extra.....	15.00
For 15-sec. graduations, either limb, extra.....	20.00
Attached compound magnifiers, either limb.....	15.00
Attached compound magnifiers for both limbs.....	25.00

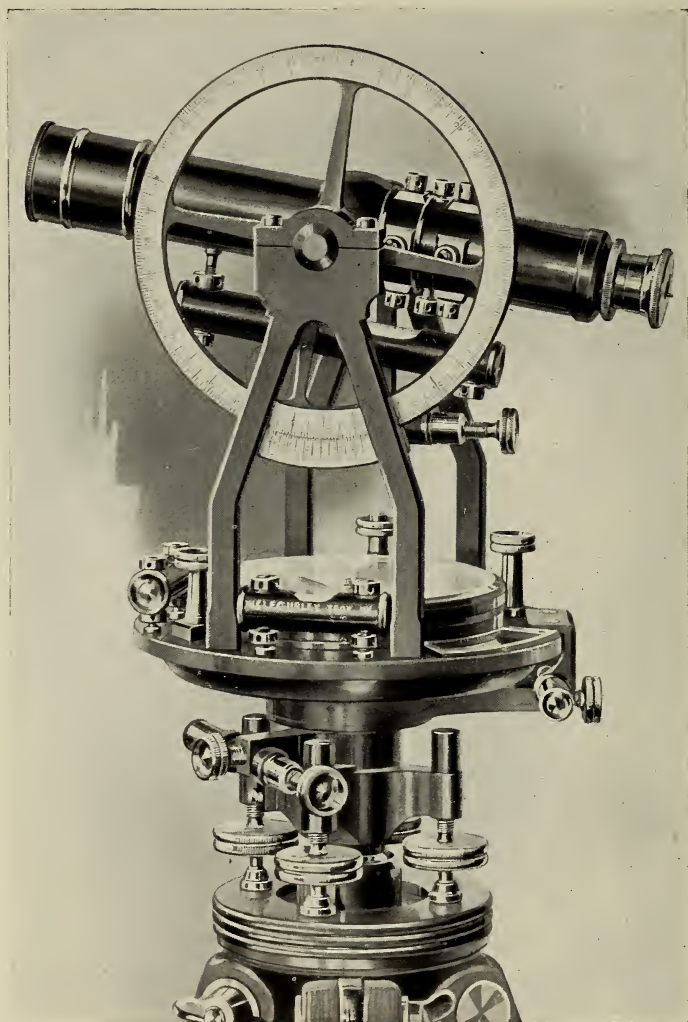
The height of this instrument with arc is 13 inches; with circle $14\frac{3}{4}$ inches. The weight is 17 pounds complete in mahogany case with valise handle and the usual accessories, 30 pounds.

This model may also be supplied in the $4\frac{1}{2}$ -inch, the 5-inch, or the 7-inch sizes at a modification in the base price ranging between \$15.00 and \$30.00. We shall be pleased to quote upon request.



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.

EXPLORERS' TRANSIT
(GURLEY)



3925G

324



EXPLORERS' TRANSIT No. 3925G—Continued (GURLEY)

Specifications

Horizontal Limb.—Diameter inside graduated edge 4 inches, graduated on sterling silver, reading to single minutes by two double opposite verniers placed at an angle of 30 degrees to line of sight and figured 0 to 180.

Plate.—With needle $2\frac{3}{4}$ inches long, compass circle graduated on upper surface to whole degrees and figured 0 to 90 each way. Variation Arc for setting off magnetic declination. Beveled-edge plate glass over compass face and selected plate over verniers. Waterproof.

Telescope.— $6\frac{1}{2}$ inches long, object glass clear aperture $1\frac{1}{16}$ inch, power 16 diameters, erecting. Rack and pinion movement to object slide. Spiral movement to eyepiece. Platinum cross-wires and stadia wires.

Vertical Circle.—4 inches diameter graduated on sterling silver, reading by one double vernier to single minutes.

Level on Telescope.—3 inches long, with ground and graduated vial.

Clamp and Tangent.—To telescope axis.

Leveling Head.—Of skeleton form combining light weight with rigidity, with shifting center and dust caps over leveling screws. The tangent screws to telescope axis; limb and leveling head have opposing springs.

The transit is securely packed in a leather covered mahogany box with lock and shoulder strap.

The box contains accessories of reading glass, 6-ounce plummet, shade for object glass, screwdriver, two adjusting pins and center pin wrench.

The tripod has jointed extension legs, with wooden cap and canvas case. Weight of Transit about 5 pounds.

Weight of Tripod about 5 pounds.

Price complete as above described.....\$165.00

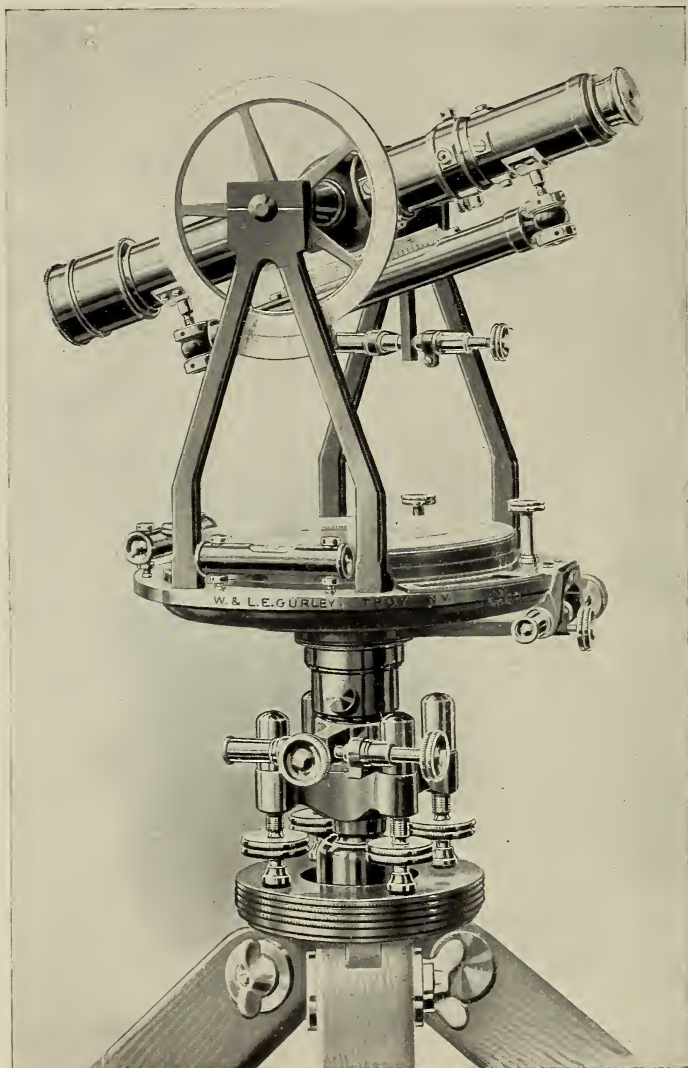
Accessories, which can be supplied when ordered with instruments, as follows:

Beaman Stadia Arc fitted to any new Explorer's Transit.....\$15.00

Leather Dress Suit Case, 24 inches long, to contain Explorer's Transit and jointed extension tripod..... 8.00



SURVEYORS' TRANSIT
(GURLEY)



3927G
326



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



SURVEYORS' TRANSIT No. 3927G—Continued (GURLEY)

Specifications

Horizontal Limb.—Diameter inside graduated edge 6.7 inches, graduated on sterling silver, reading to single minutes by two double opposite verniers placed at an angle of 30 degrees to line of sight and figured 0 to 90 each way inner row, and 0 to 360 outer row.

Plate.—With needle 5 inches long, compass circle graduated on upper surface to half degrees and on inner edge to whole degrees, figured on upper surface 0 to 90 each way. Variation arc for setting off magnetic declination. Beveled-edge plate glass over compass face and selected plate over verniers. Waterproof.

Telescope.—11 inches long, object glass clear aperture $1\frac{3}{16}$ inches, power 26 diameters erecting. Rack and pinion movements to both eyepiece and object slide. Platinum cross-wires.

Vertical Circle.— $4\frac{1}{2}$ inches diameter graduated on sterling silver, reading by one double vernier to single minutes.

Level on Telescope.— $7\frac{1}{8}$ inches long, with ground vial and scale.

Clamp and Tangent.—To telescope axis.

Leveling Head.—Of skeleton form combining light weight with rigidity, with shifting center and dust caps over leveling screws. The tangent screws to telescope axis, limb, and leveling head have opposing springs.

The transit is securely packed in a finely finished mahogany box with lock, strap, and rubber tips.

The box contains accessories of reading glass, 10-ounce plummet, shade for object glass, screwdriver, two adjusting pins and center pin wrench.

The tripod has plain round legs, with wooden cap.

Weight of Transit about 18 pounds.

Weight of Tripod about 10 pounds.

Price complete as above described.....\$160.00

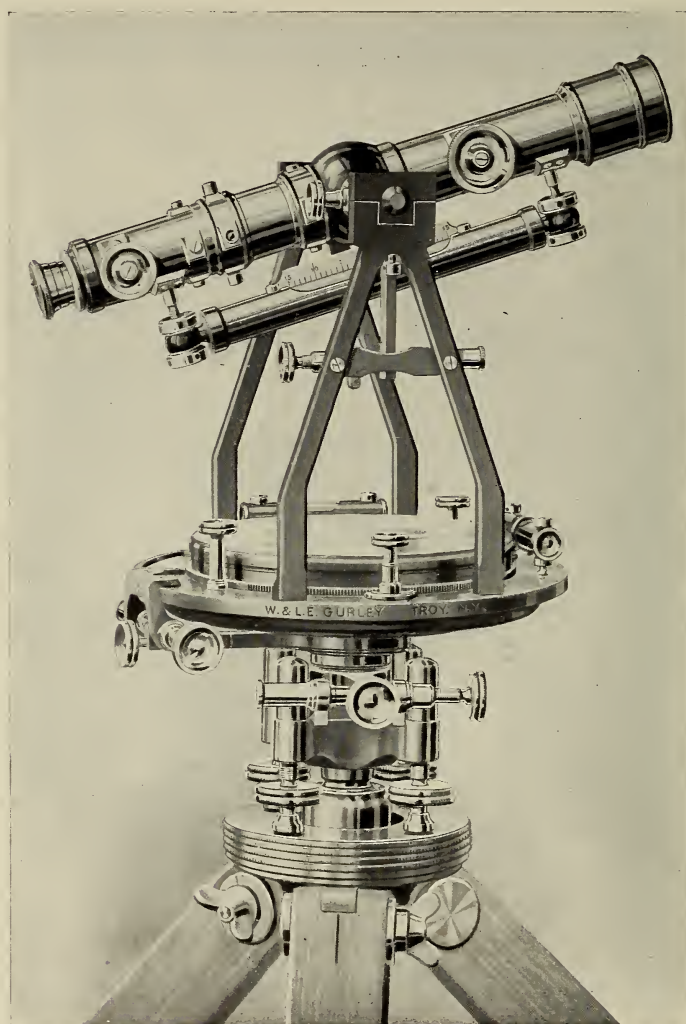
Accessories which can be supplied when ordered with instrument as follows:

Aluminum guard for vertical circle, extra.....	\$ 6.00
Beaman Stadia Arc, extra	15.00
Split leg tripod instead of plain tripod, extra.....	2.00
Extension leg tripod instead of plain tripod, extra.....	5.00
Platinum stadia wires in addition to plain cross-wires, no charge.	

Horizontal limb figured 0-360, two rows in opposite directions, inclined figures, no charge.



SURVEYORS' TRANSIT
(GURLEY)



3929G

328



SURVEYORS' TRANSIT No. 3929G—Continued (GURLEY)

Specifications

Horizontal Limb.—Diameter inside graduated edge 6.7 inches, graduated on sterling silver, reading to single minutes by one double vernier placed at an angle of 30 degrees to line of sight and figured 0 to 90 each way inner row and 0 to 360 outer row.

Plate.—With needle 5 inches long, compass circle graduated on upper surface to half degrees and on inner edge to whole degrees, figured on upper surface 0 to 90 each way. Variation arc setting off magnetic declination. Beveled-edge plate glass over compass face and selected plate over vernier. Waterproof.

Telescope.—11 inches long, object glass clear aperture $1\frac{3}{16}$ inches, power 26 diameters, erecting. Rack and pinion movements to both eyepiece and object slides. Platinum cross-wires.

Level on Telescope.— $7\frac{7}{8}$ inches long, with ground vial and scale.

Clamp and Tangent.—To telescope axis

Leveling Head.—Of skeleton form, combining light weight with rigidity, with shifting center and dust caps over leveling screws. The tangent screws to telescope axis, limb, and leveling head have opposing springs.

The transit is securely packed in a finely-finished mahogany box with lock, strap, and rubber tips.

The box contains accessories of reading glass, 10-ounce plummet, shade for object glass, screwdriver, two adjusting pins and center pin wrench.

The tripod has plain round legs, with wooden cap.

Weight of Transit about $16\frac{1}{2}$ pounds.

Weight of Tripod about 10 pounds.

Price complete as above described.....\$133.00

Accessories, which can be supplied when ordered with instrument, as follows:

Vertical circle, $4\frac{1}{2}$ inches diameter, graduated on silver reading by one fixed double vernier to single minutes, extra.....\$12.00

Aluminum guard for vertical circle, extra..... 6.00

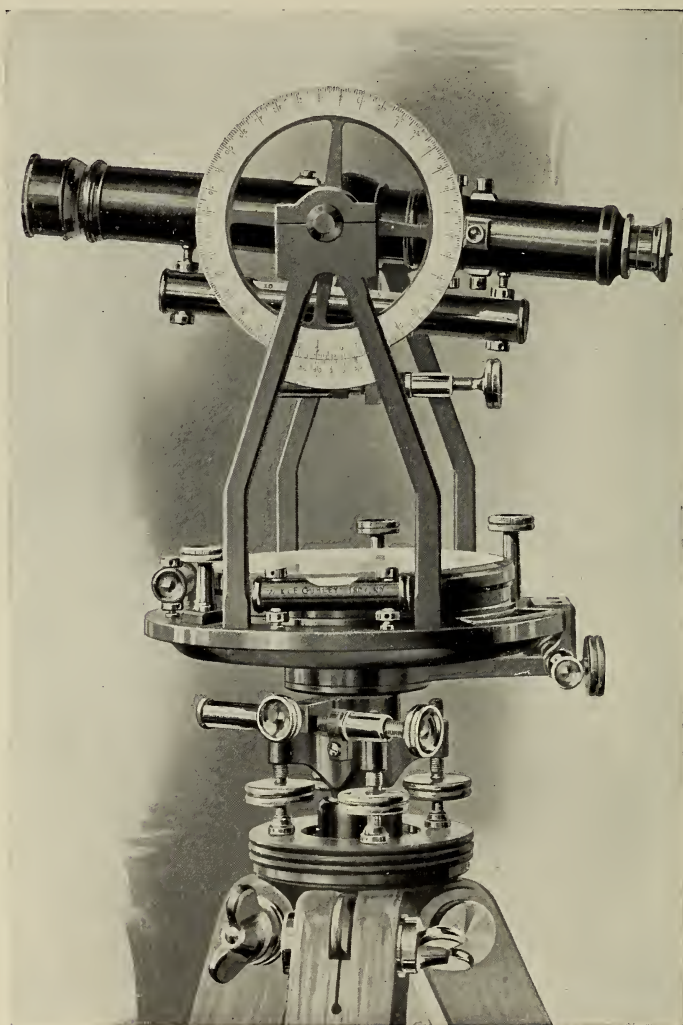
Split leg tripod instead of plain tripod, extra..... 2.00

Extension leg tripod instead of plain tripod, extra..... 5.00

Stadia wires in addition to plain cross-wires, no charge.

Horizontal limb figured 0-360 two rows in opposite directions, inclined figures, no charge.

RECONNAISSANCE TRANSITS
(GURLEY)



3930G



RECONNAISSANCE TRANSIT No. 3930G—Continued (GURLEY)

Specifications

Horizontal Limb.—Diameter inside graduated edge 4.96 inches, graduated on sterling silver, reading to single minutes by one double vernier placed at an angle of 30 degrees to line of sight and figured 0 to 180.

Plate.—With needle $3\frac{1}{2}$ inches long, compass circle graduated on upper surface to whole degrees and figured 0 to 90 each way. Variation arc for setting off magnetic declination. Beveled-edge plate glass over compass face and selected plate over vernier. Waterproof.

Telescope.—9 inches long object glass, clear aperture $1\frac{1}{16}$ inch, power 20 diameters erecting. Rack and pinion movement to object slide. Spiral movement to eyepiece. Platinum cross-wires and stadia wires.

Vertical Circle.— $3\frac{1}{2}$ inches diameter graduated on sterling silver, reading by one double vernier to 5 minutes.

Level on Telescope.— $4\frac{5}{16}$ inches long, with ground and graduated vial.

Clamp and Tangent.—To telescope axis.

Leveling Head.—Of skeleton form, combining light weight with rigidity, and with shifting center. The tangent screws to telescope axis, limb, and leveling head have opposing springs.

The transit is securely packed in a finely finished mahogany box with lock, strap, and rubber tips.

The box contains accessories of reading glass, 6-ounce plummet, shade for object glass, screwdriver, two adjusting pins and center pin wrench.

The tripod has extension legs, with wooden cap and strap.

Weight of Transit about $7\frac{3}{4}$ pounds.

Weight of Tripod about $7\frac{3}{4}$ pounds.

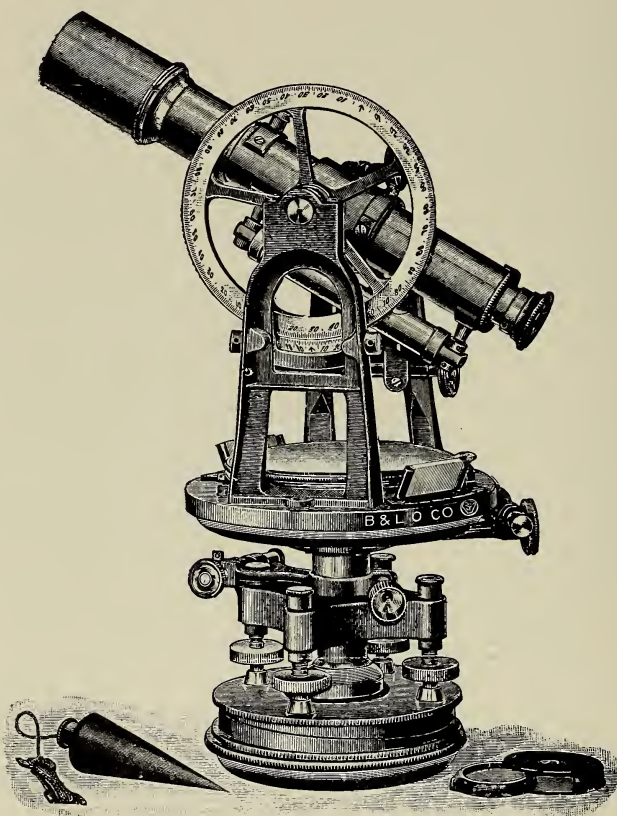
Price complete as above described.....\$115.00

3931G. Reconnaissance Transit same as No. 3920G but with $4\frac{1}{2}$ -inch vertical circle with vernier reading to one minute.....\$122.00

Beaman Stadia Arc, for No. 3931G Reconnaissance Transit.....\$15.00

(The Beaman Stadia Arc cannot be supplied with No. 3930G Reconnaissance Transit.)

BAUSCH & LOMB RECONNAISSANCE TRANSIT



3930L

3930L. Reconnaissance Transit $4\frac{1}{4}$ -inch horizontal circle, double opposite verniers; $2\frac{1}{4}$ -inch tubular compass needle; clamp and tangent for telescope axis; $3\frac{1}{4}$ -inch telescope bubble; 4-inch vertical circle, minute graduations and adjustable vernier.....\$190.00
 For the quick leveling head as illustrated, if desired..... 10.00



BAUSCH & LOMB RECONNAISSANCE TRANSIT (CONTINUED)

For forestry service, landscape gardening, or where extreme portability is preferable to high telescopic power, this type of transit is especially appropriate. Hard bronze is the metal employed and a new type of reinforced truss standard permits the use of a 3-inch tubular needle in connection with a continuous variation plate. The leveling screws and telescope axis are protected by dust caps and the leveling-screw cups are secured against loss.

The telescope is from 7 to 8 inches long, may be furnished in either the erecting or inverting type, as desired. In either case it has a clear aperture of 1 inch.

The telescope bubble has a sensibility of 40 seconds per each 2 minutes division and the $1\frac{1}{2}$ -inch plate bubbles are sensitive to 60 seconds. The telescope journals are protected by dust caps. In the illustration they have been removed to show the 3 point method of contact in the bearing surfaces.

The weight of the instrument is only $6\frac{1}{2}$ pounds and the split leg tripod regularly furnished weighs $7\frac{1}{4}$ pounds more. Complete in mahogany case with plumb-bob, magnifier, sunshade, screwdriver, adjusting pins, etc., $11\frac{1}{2}$ pounds.

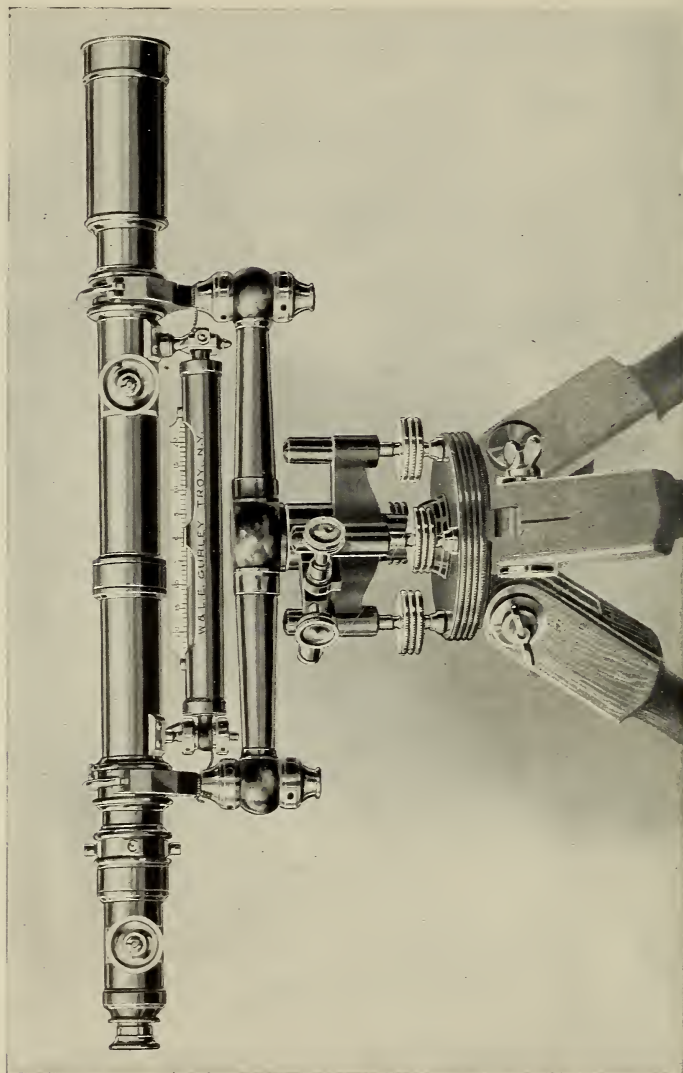
This instrument may be furnished also with an arc instead of full circle at\$185.00

It may also be supplied with aluminum cover guard for the vertical circle at 195.00

Other Accessories

Eyepiece prism with colored sunshade.....	\$6.50
Fixed Stadia, 1 : 100	3.00
Gradienter	5.00
Extension Leg Tripod, weight $7\frac{1}{2}$ pounds, extra.....	5.00
Three-joint flexible rod reading glass	5.00
5 x 4 Reducing ring for mounting on large tripod	3.00
4-inch wall trivet	2.50
Sole leather case cover with valise handle	6.00
Leather pack straps, removable	2.50

ENGINEERS' Y LEVELS



3941G



ENGINEERS' Y LEVELS—Continued

(GURLEY)

Specifications

3941G. Telescope 20 inches long, objective $1\frac{3}{8}$ inches clear aperture, erecting eyepiece, power 37 diameters, platinum cross-wires, dust guard to object slide, detachable sunshade. Rack and pinion movement to eyepiece and object slides.

Sensitive ground level vial with scale.

Leveling head with clamp and tangent to spindle, dust caps over leveling screws.

Level packed in mahogany box, with lock, hooks, strap, and rubber tips.

Box contains accessories of 10-ounce plain plummet, screwdriver and 4 adjusting pins.

Plain tripod with wooden cap.

Weight of level about 13 pounds.

Weight of tripod about 10 pounds.

Price complete\$110.00

Attachments for Y Levels

Mirror for observing level bubble from the eyepiece end of the instrument\$10.00

Horizontal circle $3\frac{1}{2}$ -inch diameter, graduated to degrees figured 0-90 each way, reading by vernier to 5 minutes..... 15.00

Compass with 3-inch needle but without sights..... 10.00

Split leg tripod instead of plain tripod, extra..... 2.00

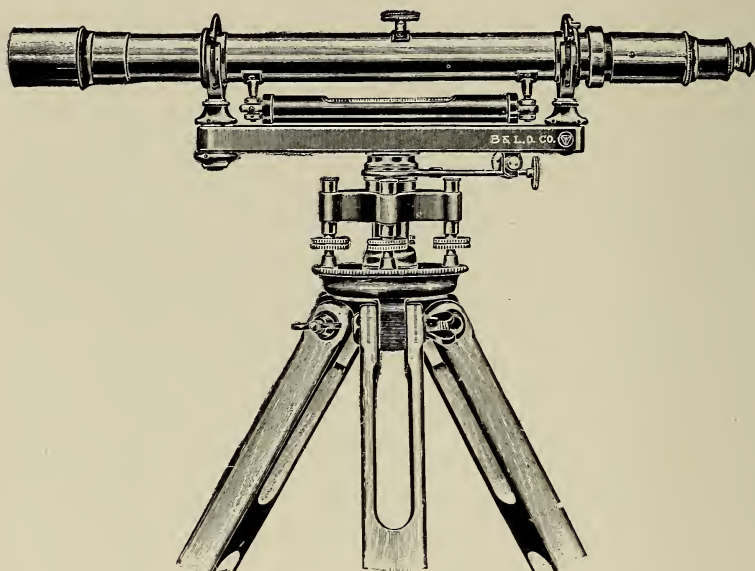
Extension leg tripod instead of plain tripod, extra..... 5.00

3940G. Y Level, 22-inch telescope, with leveling screws, clamp, and tangent and tripod\$115.00

3941G. Y Level, 20-inch telescope, with leveling screws, clamp and tangent and tripod 110.00

3942G. Y Level, 18-inch telescope, with leveling screws, clamp and tangent and tripod..... 110.00

BAUSCH & LOMB WYE LEVEL



3941L

21-inch Wye Level with interior focusing system, hermetically sealed tube, 8 inches; 30-second bubble, steel center, and split leg tripod. Complete in mahogany case.....\$135.00



BAUSCH & LOMB WYE LEVEL—Continued

3941L

The telescope of this instrument is 21 inches long and equipped with an entirely new interior focusing system. The process of focusing takes place between the Y bearings, where it will not disturb the equilibrium of the instrument. The diaphragm is concealed beneath a protection ferrule and the tube is otherwise sealed against dust or moisture. Owing to the fixed relationship between the objective and the diaphragm, a permanency in the collimation adjustment for all distances is assured.

RAILROAD WYE LEVEL

The achromatic objective has an aperture of $1\frac{1}{2}$ inches and the erecting eyepiece produces a magnification of 30 unless the variable power eyepiece is specified, in which case the magnification may be conveniently set to regulate illumination in variable atmospheric conditions.

The bubble is 8 inches long and ordinarily supplied with a vial of 30-second sensibility. The leveling base is cast iron, the leveling screws are German silver, and the center is of steel. The height is $8\frac{1}{2}$ inches, the weight of the instrument is $11\frac{1}{2}$ pounds, and the weight of the tripod is $9\frac{1}{2}$ pounds.

The telescope is finished in French gray lacquer, the wyes and smaller parts in gamboge, and the base bar and leveling head in Japanese lacquer. The parts are assembled under expert inspection, and the quality of workmanship is of the very highest order produced, under the terms of an unqualified guarantee.

Accessories and Extras

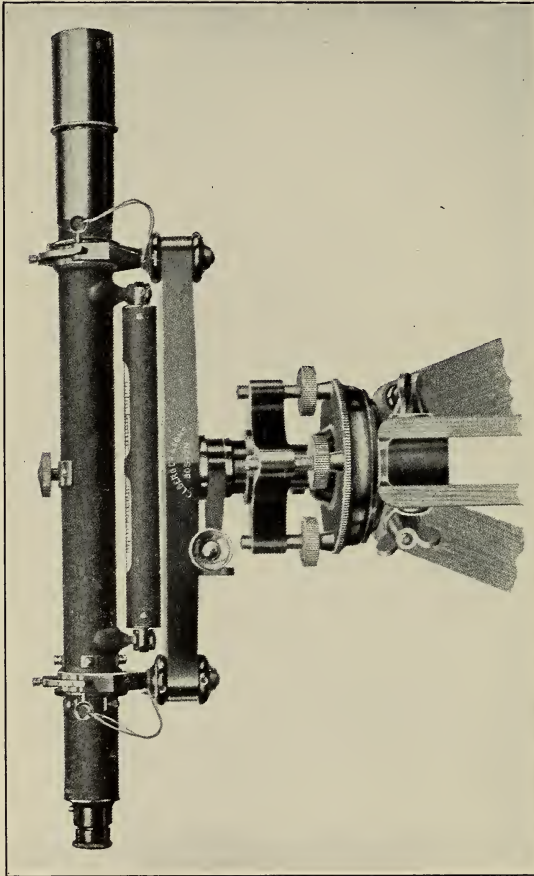
Variable power eyepiece $\times 18$ to $\times 36$	\$12.00
20-second bubble instead of 30-second.....	4.50
10-second bubble instead of 30-second.....	6.00
Reversion bubble with cover guard.....	15.00
B. & L. 3-screw base, highly recommended for this type.....	10.00
Quick leveling head	10.00
Reading mirror to observe bubble from eye end.....	6.00



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



ENGINEERS' 18-INCH WYE LEVEL
(BERGER)



3942B



ENGINEERS' 18-INCH WYE LEVEL—Continued

Leveling Instrument of Great Precision

Specifications

3942B.

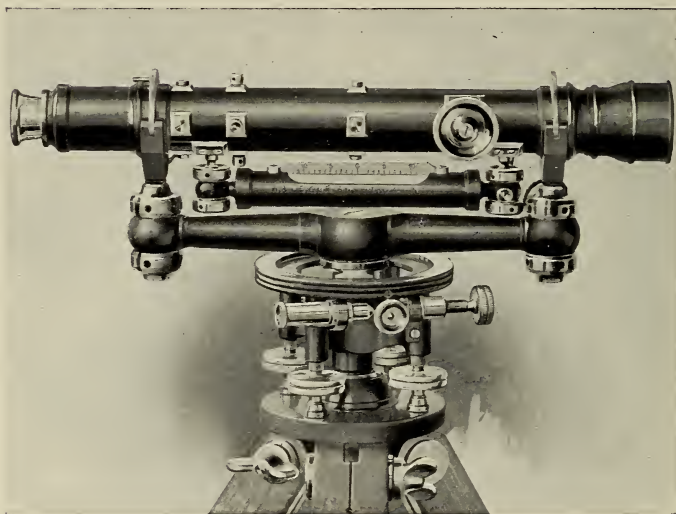
Telescope.—18 inches, objects erect, aperture $1\frac{3}{8}$ inches, power 35 diameters. Protect to object slide. Eyepiece provided with an improved screw arrangement for the focusing of the cross-wires. Field of view large and flat. Telescope provided with a stud to readily set cross-wires horizontal and vertical. Line of collimation true for all distances. Telescope balanced each way from center when focused for a mean distance with sunshade attached, to secure the highest accuracy obtainable. Telescope rings and the instrument center are very stout, the latter being very long.

Spirit Level.— $8\frac{3}{8}$ inches, ground very sensitive, 10, 15, 20 seconds of arc for $\frac{1}{10}$ inch division. Exterior surface of metal tube leatherized. Full length, split leg tripod. The mahogany case has a leather strap, hooks, etc. It contains sunshade, wrench, screwdriver, and adjusting pin.

Weight of Level.—About 11 pounds. Weight of tripod about 10 pounds. Gross weight of level and tripod, packed securely for shipment in two boxes, about 55 pounds.

Price, including a protection to the object slide.....\$140.00

ENGINEERS' Y LEVELS



3943G



ENGINEERS' Y LEVELS—Continued

Made by W. & L. E. Gurley

Specifications

3943G.

Engineers' Y Level as follows:

Telescope 15 inches long, objective $1\frac{3}{8}$ inches clear aperture, erecting eyepiece, power 26 diameters, platinum cross-wires, detachable sunshade and dust cap. Rack and pinion movement to object slide. Spiral movement to eyepiece.

Sensitive ground level vial with scale.

Leveling head with clamp and tangent to spindle, dust caps over leveling screws.

Level packed in mahogany box with lock, hooks, strap, and rubber tips.

Box contains accessories of 10-ounce plain plummet, screwdriver, and 4 adjusting pins.

Plain tripod with wooden cap.

Weight of level about $11\frac{1}{4}$ pounds.

Weight of tripod about 10 pounds.

Price complete\$90.00

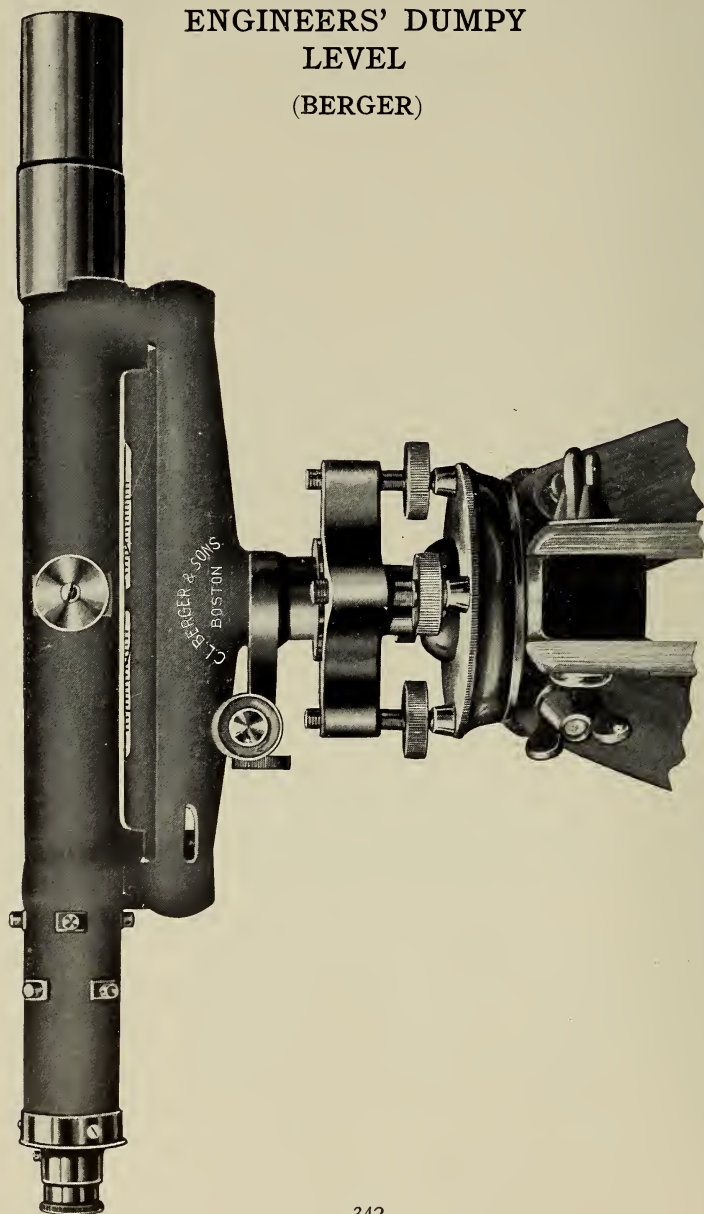
Horizontal circle $3\frac{1}{2}$ -inch diameter, graduated to degrees figured 0-90
each way, reading by vernier to 5 minutes.....\$15.00

Compass with 3-inch needle but without sights..... 10.00

Split leg tripod instead of plain tripod, extra..... 2.00

Extension leg tripod instead of plain tripod, extra..... 5.00

ENGINEERS' DUMPY
LEVEL
(BERGER)





TECHNICAL SUPPLY COMPANY

SCRANTON, PA

THE BERGER ENGINEERS' DUMPY LEVEL

(CONTINUED)

An instrument of great precision, superior to any Wye Level of same aperture, power of telescope, and same sensitiveness of spirit level. The best instrument for use in distant lands and rough country on account of its great compactness, simplicity, strength to withstand rough treatment, permanency of adjustments, and steadiness in a strong wind, requiring but ordinary attention and care to keep in working order.

This new type of Dumpy Level with round hollow, and very long cross-bar, must be considered the most perfect in this line. It stands low on the tripod, and its fine spirit level, being placed in the hollow cross-bar, below the telescope, can be read from either side, and is entirely protected from accident and liability to derangement of adjustments, also from the disturbing influences of the heat of the sun, touch of fingers, breath, etc. These latter conditions are not fulfilled in instruments where the level is placed on top or at the side of the telescope, and frequently causes the incorrect reading of the bubble. This instrument is of very strong build, combined with a minimum of weight, and as it consists of a fewer number of pieces than the Wye Level, is less liable to derangement in case of accident. The adjustment once properly made by the two-peg method is apt to stay for years, thus removing one of the chief objections as compared with those of a Wye Level. In making the adjustment of this Dumpy Level, the engineer does not depend so much on mechanical perfection, as on his own superior skill and sense of accuracy.

To meet an urgent demand this type of Dumpy Level is now provided with a clamp and tangent screw to enable, in a strong wind, to keep the telescope upon an object and it will prove an invaluable accessory.

We recommend this instrument highly for all work of a high character, such as bench leveling, waterworks, and railroad construction, also for reconnaissance. The telescope can be inverting or erecting.

Specifications

3944B. Telescope 17 $\frac{1}{2}$ -inch object erect, aperture 1 $\frac{3}{8}$ inches.

Eyepiece provided with an improved screw arrangement for the focusing of its cross-wires.

Field of view large and flat. Line of collimation true for all distances.

Telescope balanced each way from center when focused for a mean distance with sunshade attached to it to secure the highest accuracy obtainable.

Spirit level, 7 $\frac{1}{2}$ inches, ground very sensitive, 10, 15, 20 seconds for $\frac{1}{10}$ inch divisions.

Clamp and tangent screw. Center, bell metal.

Upper part of level is leatherized. Full length, split leg tripod.

The mahogany case has a leather strap, hooks, etc. It contains a sunshade, wrench, screwdriver, and adjusting pin. Weight of level about 10 pounds. Weight of tripod about 10 pounds. Gross weight of level and tripod packed securely for shipment in two boxes, about 55 pounds.

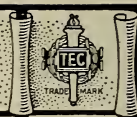
3944B. Price of this instrument, as shown in cuts, with protection to object slide; very hard bell-metal center cast in one piece with hollow cross-bar and clamp and tangent screw.....\$110.00

If inverting telescope is desired in place of erecting, add the word invert No. 3944B. Invert same as 3944BO Telescope 15-inch object inverted aperture 1 $\frac{3}{8}$ -inch, power 28.

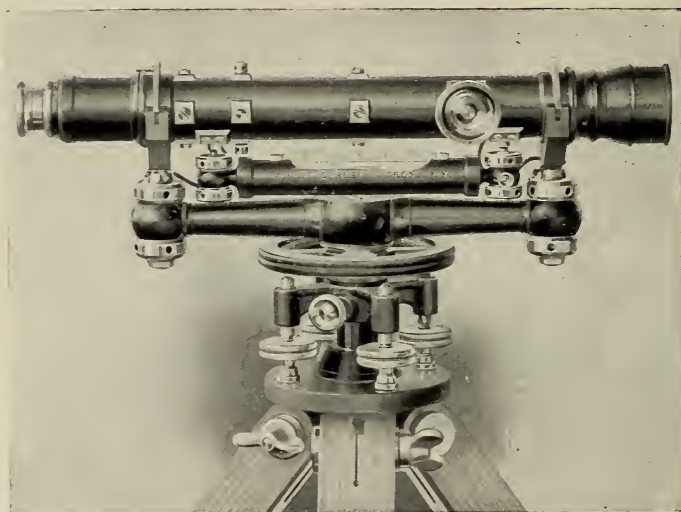
Price, \$110.00



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



ARCHITECTS' Y LEVELS
(GURLEY)



3945G



ARCHITECTS' Y LEVELS—Continued

Specifications

3945G. Architects' Y Level as follows:

Telescope 12 inches long, objective $1\frac{3}{16}$ inches clear aperture, erecting eyepiece, power 19 diameters, platinum cross-wires, detachable sunshade and dust cap. Rack and pinion to eyepiece. Spiral movement to eyepiece.

Sensitive ground level vial with scale.

Leveling head with clamp and tangent to spindle, dust caps over leveling screws, horizontal circle, 3 inches diameter, graduated to degrees, figured 0-90 each way and reading by vernier to 5 minutes.

Level packed in mahogany box with lock, hook, and strap.

Box contains accessories of 6-ounce plain plummet, trivet plate, screw-driver, and 4 adjusting pins.

Plain tripod with wooden cap.

Weight of level about $6\frac{1}{2}$ pounds.

Weight of tripod about 7 pounds.

Price complete\$50.00

3946G. Architect Level, same as No. 380 but having clamp and tangent to spindle\$65.00

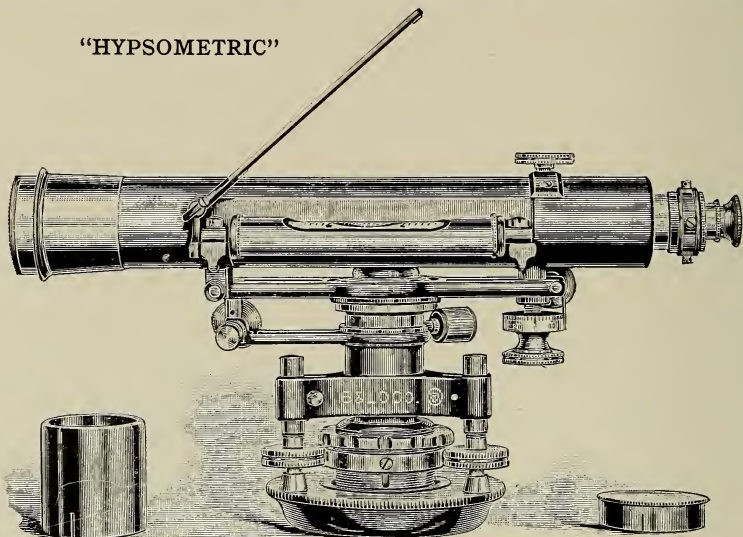
Compass with 3-inch needle but without sights fitted to No. 380 or No. 381 Architect Level 10.00

Split leg tripod instead of plain tripod, extra 5.00

Extension leg tripod 7.00

BAUSCH & LOMB ENGINEERS' PRECISE LEVEL

"HYPSONOMETRIC"

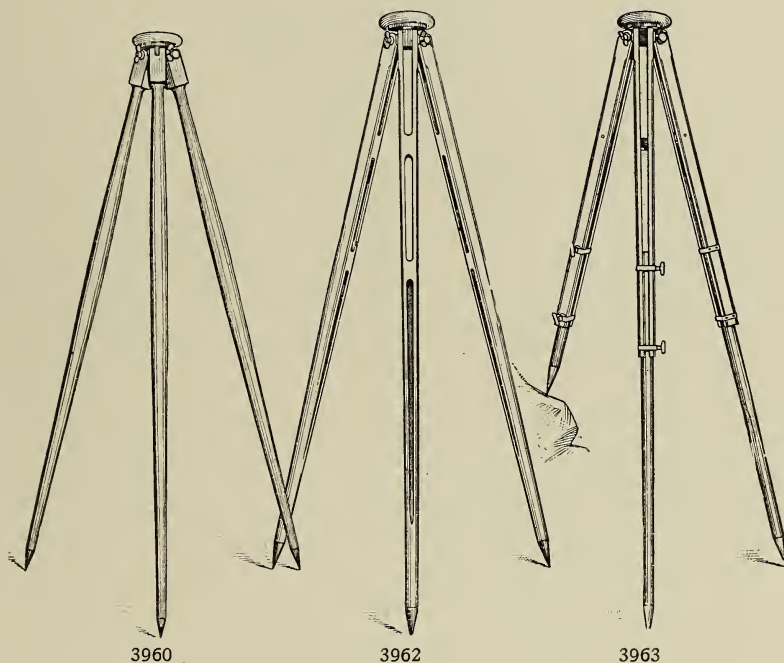


3943L. Engineers' Precise Level with vertical control, inverting or erecting telescope as desired, aperture $1\frac{1}{8}$ -inch, fully utilized, power $\times 26$ with very sensitive bubble, steel center four-screw base, and split leg tripod, etc.....\$120.00
 Gradienter drum for vertical adjustment for the observation or establishment of percentage grades, if desired, extra..... 5.00

14-inch Engineers' Precise Level. In dumpy or wye levels, the necessity for maintaining the adjustments of perfect verticality in the vertical axis is an indispensable requirement in the successful operation of the instrument. If the bubble runs off center while telescope is turned between any two sets of the leveling screws much annoyance and delay is caused in the attempt to recenter the bubble by the rather coarse and unresponsive control in the four-screw leveling base. In this type of instrument the necessity for this appeal no longer exists, for the bubble can always be conveniently and accurately centered, in every position of the telescope, by the vertical adjusting screw and the mirror, at the instant of observation without moving in one's position. In instruments of this class therefore the vertical axis is used only as a means of revolving the instrument and accurate results can be quickly attained irrespective of the adjustments in the vertical axis or the conditions in the leveling base. If bubble axis is carefully adjusted to line of sight, every requirement has been fulfilled, for no other mechanical equation enters into the character of the results which the operator does not control at the instant of observation. The three-screw base shown in the illustration is not essential with this type, but is very important in the successful operation of dumpy levels. Instrument is 7 inches high, weight $9\frac{1}{2}$ pounds. Complete in mahogany case, valise handle, etc., 17 pounds.

TRIPODS

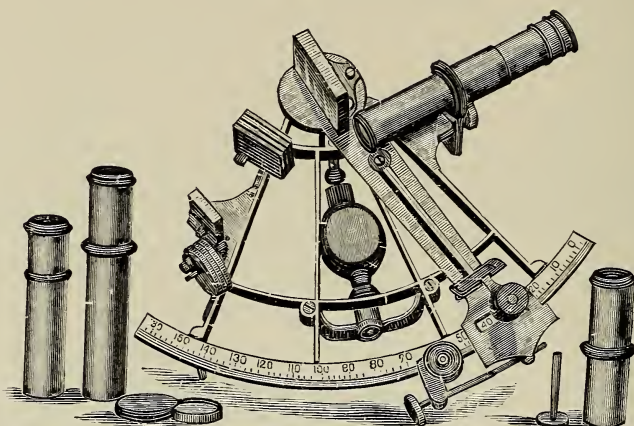
For Levels and Transits



3960. Solid-Leg Tripod, hardwood, for Levels and Transits.....each, \$10.00
3961. Solid-Leg Tripod, hardwood, light, for Architect's Levels...each, 6.00
3962. Split-Leg Tripod, for Levels and Transits.....each, 12.00
3963. Extension Tripod, hardwood, for Levels and Transits.....each, 15.00
3964. Extension Tripod, hardwood, for light Mountain Transits..each, 15.00

	Per Set of Three	Each
3965. Solid Tripod Legs	\$ 5.00	\$1.75
3966. Split Tripod Legs	7.00	2.50
3967. Extension Tripod Legs, with clamp.....	10.00	3.65

SEXTANTS AND OCTANTS



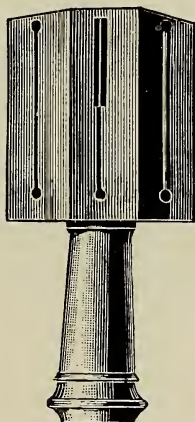
4035

4035. Sextant of gun metal, light but very strong, 8-inch radius, 120 degrees, graduated on silver to 10 minutes, vernier reading to 10 seconds; two astronomical telescopes magnifying six and ten times, one terrestrial telescope, seven neutral glasses and two mirrors. Instrument complete, in polished mahogany box. each, **\$130.00**
4036. Sextant, the same as No. 4035, but radius 6 inches. each, **110.00**
4037. Octant of gun metal, 8-inch radius, 90 degrees, graduated on silver to 20 minutes, vernier reading to 10 seconds. Astronomical and terrestrial telescope, seven neutral glasses and two mirrors. Instrument complete, in polished mahogany box. each, **75.00**

NAUTICAL SUNDRIES

4038. Index Mirrors for Mariner's Quadrant, Sextant, etc. each, **\$1.00**
- 4038A. Horizon Glass for Mariner's Quadrant, Sextant, etc. each **.75**
- 4038B. Screen Glass, light, medium, and dark green or red. each, **.50**
- 4038C. Star Telescope each, **6.00**
- 4038D. Micrometer Reader each, **3.00**
- 4038E. Extra Eyepieces each, **5.00**

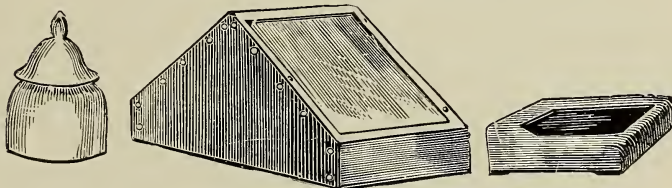
CROSS STAFF HEADS



4040

- 4040. Cross Staff Head, octagonal, for Jacob's staff, $2\frac{1}{2}$ inches, in case each, \$ 3.00
- 4041. Cross Staff Head, octagonal, for Jacob's staff, with magnetic compass, 3-inch needle, $1\frac{1}{4}$ inches.....each, 5.00
- 4042. Cross Staff Head, like No. 4041, with vertical axis and divided circle, to take angles, $3\frac{3}{8}$ inches, needle, $2\frac{1}{8}$ inches.....each, 12.00

ARTIFICIAL HORIZON



4045

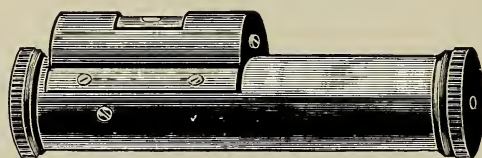
- 4045. Mercurial Horizon, iron trough, iron bottle, with screw stopper and funnel cap, glazed metal roof; in polished mahogany box each, \$30.00

ANGLE MIRRORS AND PRISMS

- 4046. Angle Mirror for angle of 90 degrees.....each, \$ 5.00
- 4047. Rectangular Prism for angles of 90 degrees, in case.....each, 5.00
- 4048. Double Prism for angles of 45 and 90 degrees, in case.....each, 10.00

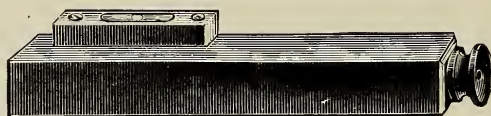
HAND LEVELS

Improved Pocket Reflecting Prism Levels



4000

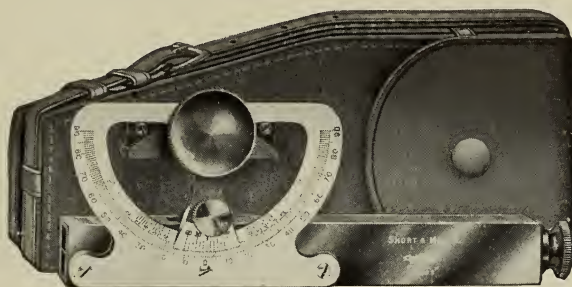
4000. Pocket Reflecting Level in bronze metal case, 5 inches long, with rectangular prism reflector. At the farther end of the tube is a sliding eyepiece in which is fixed the half of a circle of magnifying lens, and by the slide the reflected air bubble can be perfectly focused. Protecting glasses to exclude dust are fixed at both ends. In leather case complete.....each, \$5.00
4001. Same as 4000, nickel plated.....each, 5.90
4002. Same as 4000, German silver.....each, 7.50



4005

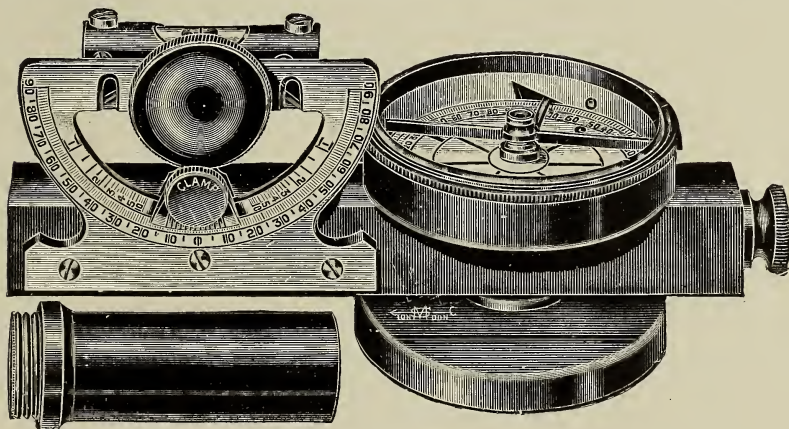
4005. Pocket Square Reflecting Level, in bronze-metal case, 5 inches long, no prism or magnifier. Fixed eyepiece in leather case, complete each, \$4.00

ABNEY'S LEVELS



4010

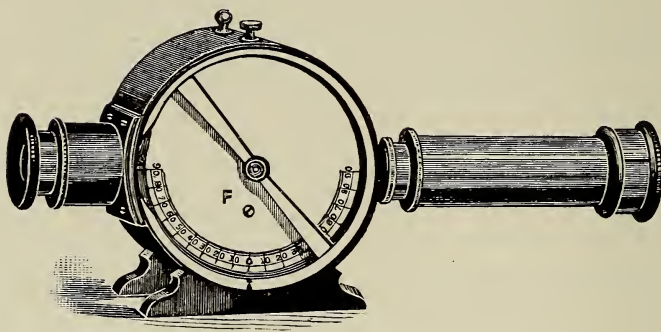
4010. Abney's Level, 5 inches long large German silver arc with draw telescope and improved central fixing clamp to vernier arcs; divided each way to 90 degrees, with vernier reading to 10 minutes. Positive clamp device. Silver reflector. In leather tuck case with flap and book of instructions. Complete....each, \$15.00
4012. Same as No. 4010, with compass attachment.....each, \$20.75



4015

4015. Abney's Level, improved form with a circular base on which the whole rotates by which horizontal angles can be measured. Complete in case.....each, \$26.00
4016. Same as No. 4015, in solid-leather sling case.....each, \$31.00

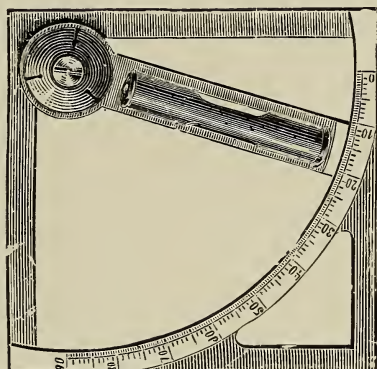
POCKET ALT-AZIMUTH



4020

4020. Pocket Alt-Azimuth, for Travelers and Military Surveyors; altitudes, azimuths, compass bearings, clinometer degrees and levels, all are obtainable by this handy and accurate little instrument. The advantages of its use have been so increased by the recent addition of an excellent telescope as to make it perfect for the various purposes to which it can be applied. Size of instrument $6\frac{1}{2}$ inches long, $2\frac{1}{2}$ inches in diameter, $1\frac{1}{8}$ inches thick, weight 13 ounces, in morocco case.....each, \$47.00

SLOPE LEVEL AND CLINOMETER

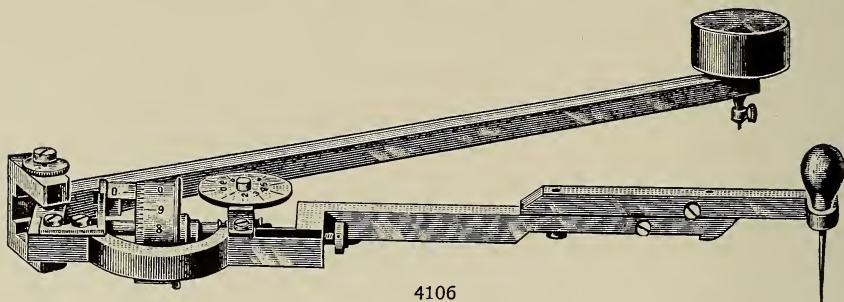


4055

4055. Clinometer or Slope Level, lacquered brass, with bubble mounted on limb, traversing 9-inch folding arc of 90° ; in box.....each, \$11.00

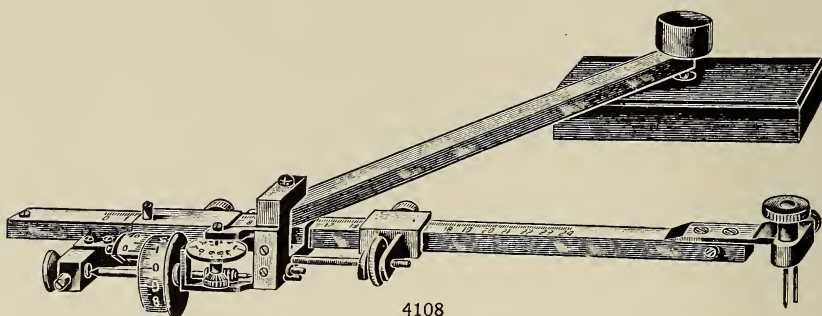
4056. Clinometer, lacquered brass, square frame, with bubble mounted on limb, traversing inscribed 4-inch arc of 90° ; such design lending great stability to the instrument, and rendering the measurement of the inclination of the underside of a plane available, as any of the four edges may be used. In box.....each, 12.00

PLANIMETERS



4106

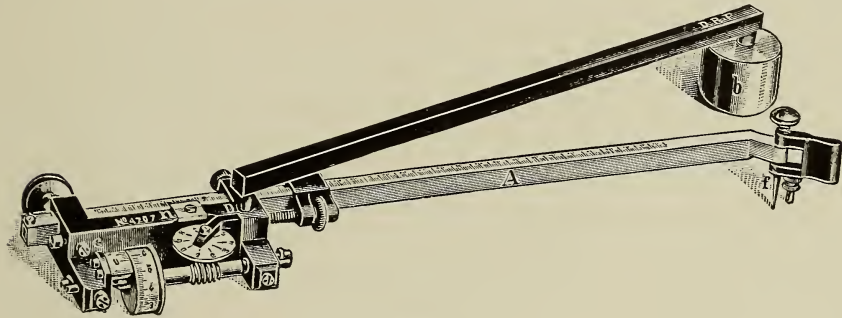
4106. Polar Planimeter, German silver, for measurements with needle pole; tracer arm so arranged that it can be shortened or made longer, and set in parallel position to axis of roller, with testing rule, in case each, \$21.00



4108

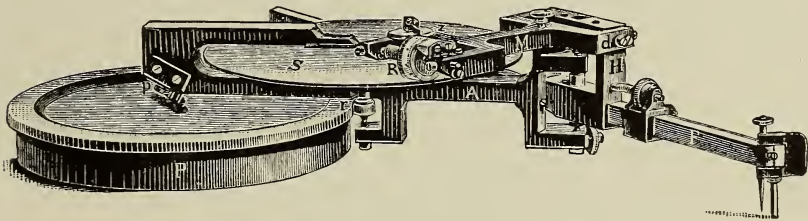
4108. Polar Planimeter of German silver; the tracer arm is divided in $\frac{1}{2}$ millimeters and with proportion marks for any reduction scales to be indicated at will. The sleeve on the tracer arm is adjustable over the entire length of the tracer arm and has a vernier reading to $\frac{1}{20}$ millimeter. The conveniently accessible correction screws have the purpose of setting the axis of the roller with the tracer arm parallel to the connection line of the tracing point with the pivot of the polar arm. With pole and needle testing rule fitted into morocco case, with lock, in such manner that the instrument may be laid in, set to any proportion, with directions each, \$33.00
4110. Polar Planimeter of German silver, like No. 4108, but with special device for finding the mean height of indicator diagrams; the points are protected by screw caps. With directions, in case each, 35.50

PLANIMETERS—Continued



4112

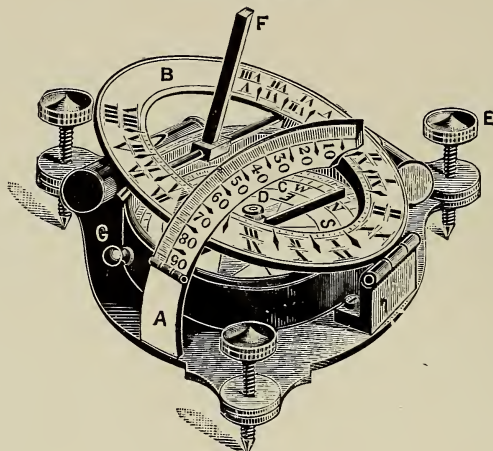
4112. Compensating Planimeter, German silver and brass; adjustable tracer arm fully graduated, improved pole weight, testing rule and table of settings for United States standard measure, with directions, in case each, \$36.00
4114. Compensating Planimeter, like No. 4112, but with adjustable pole arm, with directions, in case each, 47.00



4115

4115. Suspended Ball Planimeter, German silver and brass; tracer arm is 11¼ inches long; pole arm, 6¼ inches long; and diameter of the toothed circle on the pole, 6¼ inches long. The angular motion of the tracer arm is about 90°. Surfaces from 2½ x 4 in. to 7 x 10 in. can be measured without moving the pole. Instrument complete, in morocco case, and complete book of instructions each, \$85.00

SUN DIALS

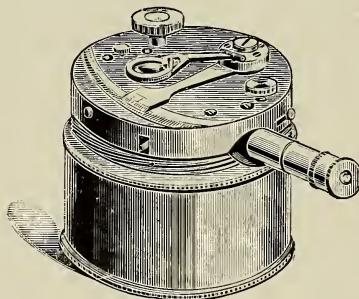


4025

4025. Sun Dial with two levels and adjusting screws, divided and engraved for North and South latitudes, complete in morocco case.

	Size, in inches, $2\frac{1}{2}$	$3\frac{1}{2}$
Each	\$36.00	\$54.00

POCKET SEXTANT



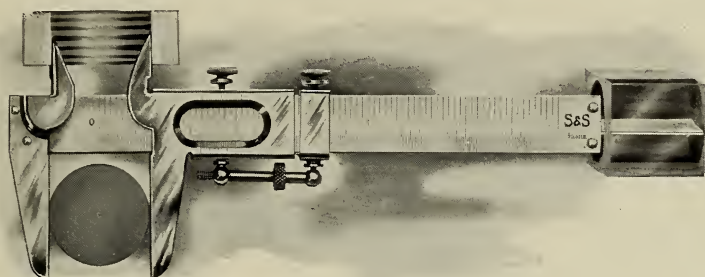
4030

4030. Pocket Sextant, best made, divided on silver with telescope in morocco case each, \$62.50

4032. Same as No. 4030, without telescope.....each, 57.50

4034. Same as No. 4032, with leather sling case.....each, 60.00

THE VERNIER CALIPER

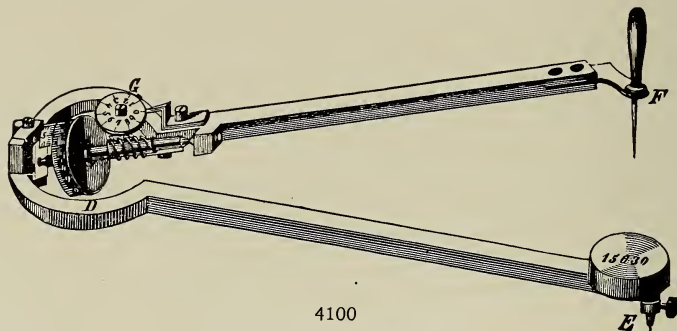


4065

Verniers for reading to 1000ths of an inch or 10ths of a millimeter (metric measure). This tool can also be furnished in any other gradation desired. Illustration shows our Vernier Caliper applied to three uses at the same time—that is, for external, internal, and depth measuring. This is the only tool on the market with the latter feature. The universal advantage of this tool is at once apparent to any machinist or toolmaker. It may conveniently be carried in the vest pocket, and for protection a handsome leather case is furnished. Though surprisingly inexpensive compared with the price of other tools of the kind, the material and workmanship is of the very best, and the Caliper is accurate enough to read to 1000ths of an inch or to 10ths of a millimeter. Confusion in measuring is impossible, as all three gauges are read from the same scale and with the same vernier. For draftsmen making sketches and drawings from finished machines or machine parts, no better tool can be found to quickly and accurately measure a shaft, hole, or depth of hole. The best proof in the world that this tool is fast finding favor with the best mechanics, is that wherever it is seen in possession of a mechanic, it immediately attracts attention, and his fellow workmen are quick to see the fine points of this universally handy and handsome Vernier Caliper, which can be had at a price making it possible for the smallest paid mechanic to own one, and with its use pave the way to better paid positions.

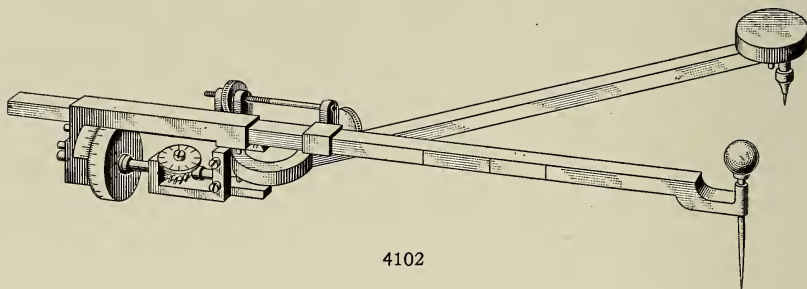
4064. Vernier Caliper, polished, with adjusting screw, in leather case each, \$3.15
4065. Vernier Caliper, nickel plated, with adjusting screw, in leather case each, 3.50

POLAR PLANIMETERS



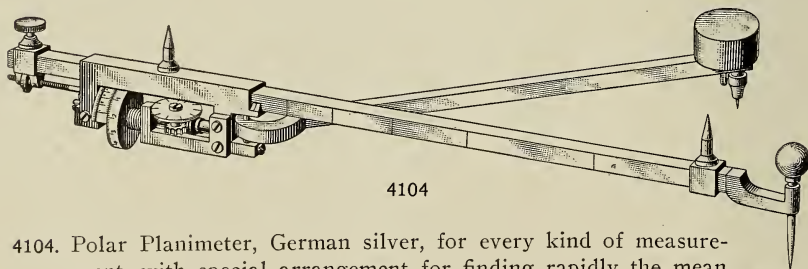
4100

4100. Polar Planimeter, German silver, arranged for measurement of areas in square inches; viz., 10, 1, $\frac{1}{10}$, and $\frac{1}{100}$ square inches, with directions, in case.....each, \$19.00



4102

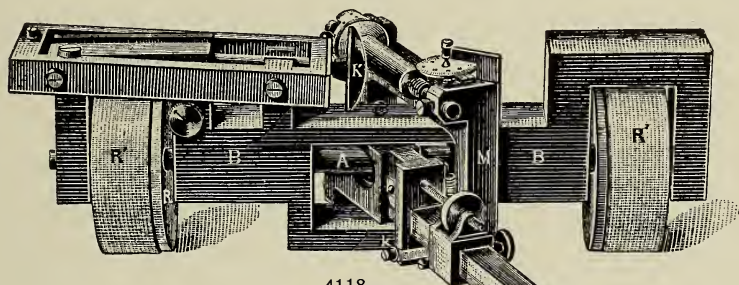
4102. Polar Planimeter, German silver, for every kind of measurement, with directions, in case.....each, \$25.00



4104

4104. Polar Planimeter, German silver, for every kind of measurement, with special arrangement for finding rapidly the mean height of indicator diagrams, with directions, in case.....each, \$33.00

PLANIMETERS



4118

4118. Rolling Ball Planimeter, German silver and brass, having tracer arm $11\frac{3}{4}$ inches long, which can be increased by a lengthener to $19\frac{3}{4}$ inches. Its angular motion is about 90° . The two rollers are made of exactly equal diameters, insuring the motion of the instrument, as a whole, in a straight line. A surface of any length and of a width of 20 inches can be measured with the $19\frac{3}{4}$ -inch tracer arm. Instrument complete, in morocco case, and complete book of instructions.....each, \$95.00

With each planimeter, a table of the following form is supplied fixed in the case, which table contains the lengths of the tracer arm separately determined for each instrument, and the values of the units of the vernier (and of the constants for polar planimeters) for four or five scales.

SCALES	POSITION OF VERNIER ON TRACER BAR	VALUE OF UNIT OF VERNIER ON MEASURING ROLLER		CONSTANT
1" = 50'	343.8	40 ☐	0.016 ☐	23,138
1" = 25'	343.8	10 ☐	0.016 ☐	23,138
1" = 20'	322.3	6 ☐	0.015 ☐	23,309
1" = 100'	322.3	150 ☐	0.015 ☐	23,309
1" = 40'	268.7	20 ☐	0.0125 ☐	24,241
1" = 20'	268.7	5 ☐	0.0125 ☐	24,241
1" = 30'	238.8	10 ☐	0.0111 ☐	
1" = 60'	238.8	40 ☐	0.0111 ☐	
1" = 100'	215.0	100 ☐	0.01 ☐	
1" = 200'	107.1	200 ☐	0.005 ☐	

For Metric Measure

1 : 1,000	333.3	10 qm	10 qmm	22,173
1 : 500	266.6	2 qm	8 qmm	23,154
1 : 2,500	213.3	40 qm	6.4 qmm	
1 : 2,000	166.6	20 qm	5 qmm	
1 : 5,000	133.3	100 qm	4 qmm	

The first vertical column contains the scale to which the plan of the area is drawn. In the second column, the length of the tracer arm is given in divisions of the vernier on the tracer arm. The third column contains the value of an unit of the vernier of the roller, or the factor by which the turning u of the roller, obtained in such units of the vernier by going once around the contour of the area, must be multiplied in order to obtain the area expressed in square feet. In the same column, the values of the unit of the vernier are given in square inches on the scale 1 : 1. The fourth column contains the constant for using the instrument with the pole within the figure. For planimeters having an adjustable pole arm, the fourth column gives, instead of the constant, the length of the pole arm for the constant 20,000 in $\frac{1}{2}$ millimeters.



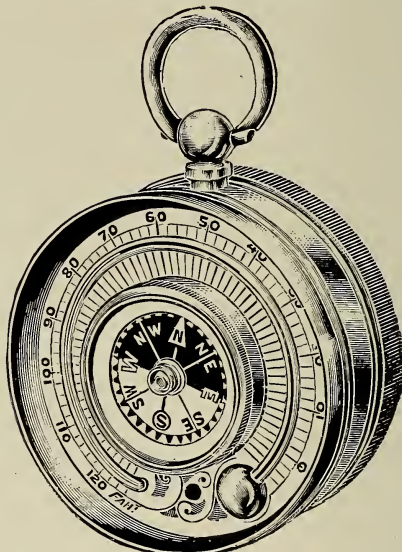
TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



ANEROID BAROMETERS
For Measuring Heights and Atmospheric Pressure



4205



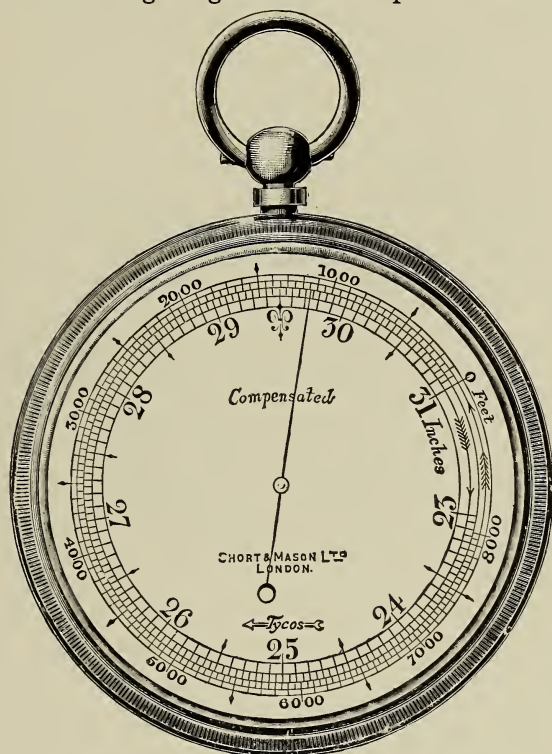
4210

4200. Watch size, gilt case, $1\frac{1}{2}$ inches diameter, silvered-metal dial, revolving altitude scale, 8,000 feet, in morocco case.....each, \$13.50
4202. Same as No. 4200, but superior quality and scale 3,000' in 10' divisions, compensated for temperature, in roan leather octagonal case each, 21.00
4205. Same as No. 4202, but altitude scale 8,000' in 50' divisions...each, 19.25
- 4205A. Same as No. 4205 with altitude scale 12,000' in 100' divisions each, 20.95
4206. Same as No. 4205, but altitude scale 20,000' in 100' divisions each 24.25
4210. Watch size, gilt case, $1\frac{1}{2}$ inches diameter, silvered-metal dial, altitude scale 8,000' in 50' divisions and small Singer pearl compass and thermometer on reverse, compensated for temperature, in roan leather octagonal case each, 29.25
- 4210A. Same as No. 4210 with altitude scale 12,000' in 100' divisions. Each 30.95
4216. Watch size, nickel spring hunting case, $1\frac{1}{2}$ inches, silvered-metal dial, revolving altitude scale 3,000' in 10' divisions, compensated for temperature each, 23.35
4218. Same as No. 4216, but altitude scale 8,000' in 50' divisions...each, 21.25
4220. Same as No. 4218, but altitude scale 20,000' in 100' divisions. Each 26.25

To prevent rust all Watch and Pocket Aneroids listed on this page have the movement gold plated and lacquered.

ANEROID BAROMETERS—Continued

For Measuring Heights and Atmospheric Pressure



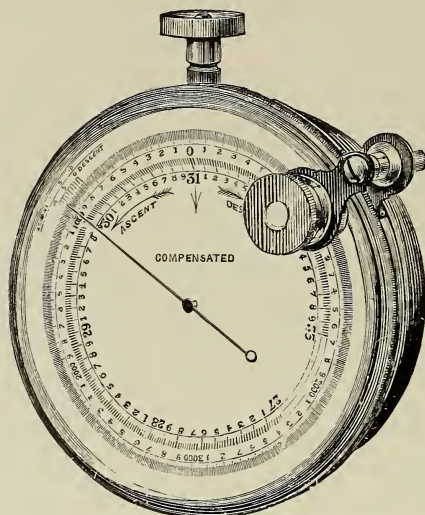
4240

- 4240. Pocket size, gilt case, $2\frac{1}{2}$ inches diameter, silvered-metal dial, compensated for temperature revolving altitude 5,000' in 20' divisions, in roan leather octagonal case.....each, \$21.35
- 4240A. Same as No. 4240 with altitude scale 8,000' in 50' divisions, each, 20.50
- 4240B. Same as No. 4240; altitude scale 12,000' in 50' divisions. each, 22.50
- 4245. Same as No. 4240, but altitude 16,000' in 100' divisions.....each, 23.80
- 4246. Same as No. 4240, but altitude 20,000' in 100' divisions.....each, 25.50
- 4247. Barometer, English Government Pattern, 5 inches diameter, bronzed case, best engraved silver dial, raised ring for divisions, thermometer attached, fixed altitude scale 8,000' in 20' divisions compensated for temperature, in morocco case.....each, 35.00
- 4248. Same as No. 4247, but altitude 16,000' in 50' divisions, in morocco case each 39.00

To prevent rust, Aneroids listed on this page have the movement gold plated and lacquered.

ANEROID BAROMETERS—Continued

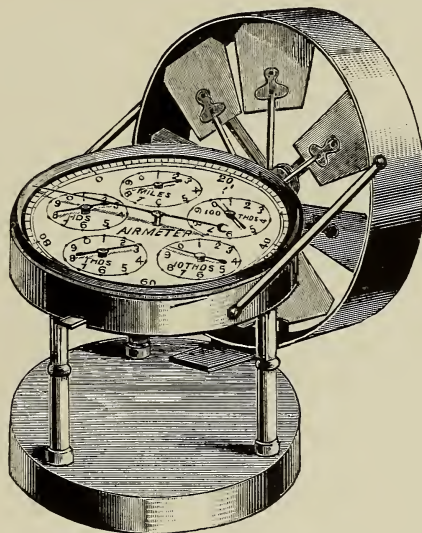
For Measuring Heights and Atmospheric Pressure



4249

- 4249. Surveying Barometer, 3 inches diameter, bronzed case, best engraved silver dial, altitude scale 5,000' in 20' divisions, readable by vernier to feet of elevation, with rack vernier scale reading lines arranged to traverse entire circle, compensated for temperature, in solid-leather sling case.....each, \$63.00
- 4250. 5-inch diameter scale to 6,000' in 10' divisions reading by vernier to single feet each, 68.00
- 4249A. Same as No. 4249, but reading to 16,000 feet, readable by vernier to 2 feet of elevation.....each, 69.40
- 4254. Mining barometer, 3 inches diameter, silvered-metal dial, raised ring for divisions, altitude 2,000 feet below and 4,000 feet above sea level, with rack vernier scale reading to 2 feet and magnifying lens, in leather sling case.....each, 63.00
- 4254A. 5-inch diameter scale 2,000' below and 4,000' above sea level in 10' divisions reading by vernier to single feet.....each, 68.00

PORTABLE AIR METER



4305

For the measurement of air-currents through mines, tunnels, sewers, and the ventilation of hospitals, public buildings, etc. The indications are obtained by means of a delicately poised fan wheel, the recordings being commenced by the long hand, which traverses the outer circumference of the main dial, showing the passage of 100 feet of air. The enumeration is continued up to 10,000,000 feet by a series of smaller dials, as shown in the illustration. A disconnector projecting from the band of the instrument opposite the fan wheel serves to throw the mechanism out of gear and arrest its action when required.

4305. With six dials, reading to 10,000,000 feet, complete in hand-sewn leather case, with jointed socket holder, disconnector, and zero setting attachment each, \$30.00

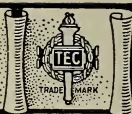
4305A. Same as No. 4305, with sand-glass timers attached.....each, 33.75

4305B. Same as No. 4305 with 4 dials reading to 100,000'.....each, 30.00

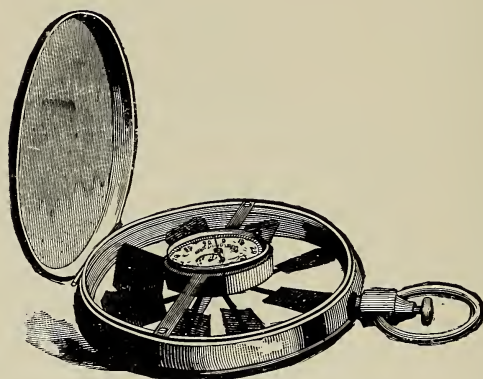
These Air Meters are jeweled throughout, suitable to velocities to 3,000' in temperature not exceeding 300° F.



TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



BIRAM'S ANEMOMETER



4322

4310. Biram's Anemometer, 3 inches, 2 dials, reading to 7,000 feet.
Each\$25.00
- 4314 Biram's Anemometer, 4 inches, 4 dials, reading to 100,000 feet.
Each 28.00
4318. Biram's Anemometer, 6 inches, 4 dials, reading to 100,000 feet.
Each 35.00
4322. Biram's Pocket Anemometer, 2 dials, reading to 1,000 feet..each, 40.00

All the above are complete in hand-sewn cases, and are furnished with disconnectors and zero setting attachment. Jeweled throughout.

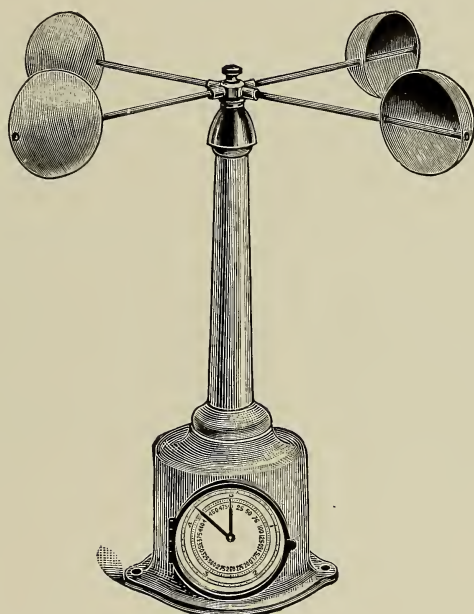
Two dial Anemometers suitable to velocities of 1,000 feet per minute.

Four dial Anemometers suitable to velocities of 3,000 feet per minute in temperatures not exceeding 300° F. Each instrument tested and chart of corrections supplied.

4324. Biram's High-Speed Anemometer, 4 inches, 4 dials reading to 200,000 feet with disconnector and zero setting attachment complete in hand-sewn leather case. Complete.....each, \$45.00

Suitable for registering strong blast currents up to velocities of 8,000 feet per minute.

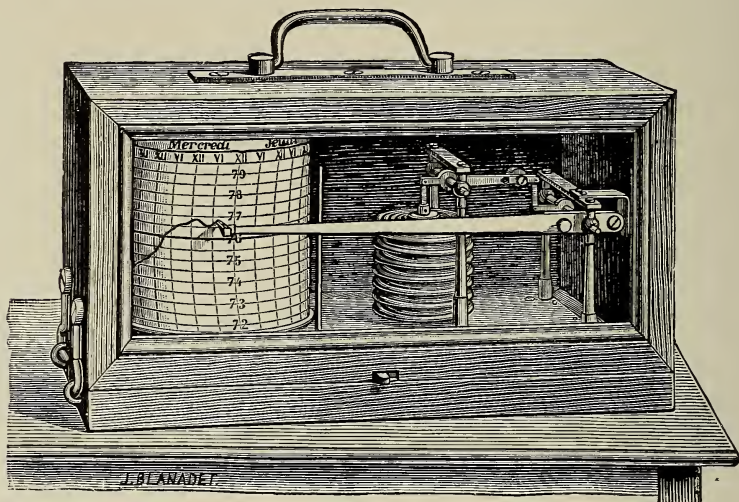
ANEMOMETERS OR WIND GAUGES



4300

4300. Robinson's Improved and Simplified Anemometer, 3-inch cups, for measuring the velocity of air-currents in mines, sewers, hospitals, public and private buildings, etc. Each instrument is tested separately, and has a correction table for variations, showing the amount of air, in feet, to be added and deducted. The four hemispherical cups are set in rotation by the motion of the air and the number of revolutions is recorded by the mechanism in the base of the instrument. The vertical axis communicating the motion of the cups to the recording mechanism runs in ball bearings, which insures a sensitive and delicate movement. The results of observations can be read off on an enameled dial on the face of the base. The outer circle of this dial registers 5 miles by $\frac{1}{10}$ mile and the inner one up to 500 miles. The two hands can be set to zero.....each, \$45.00

RECORDING INSTRUMENTS

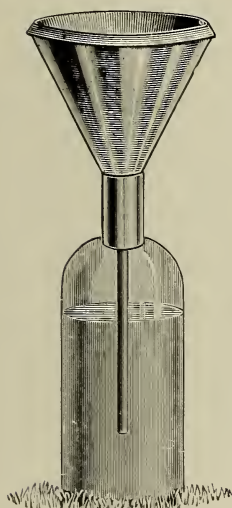


4325

These self-recording instruments have been adopted by the United States Weather Bureau and are warranted reliable and correct. The vital parts of the instrument expand or contract under varying conditions of the atmosphere and impart motion to a multiplying lever, to one end of which a pen is attached, which moves automatically over a graduated paper scale, fastened upon a brass cylinder that revolves upon its axis once every 8 days by means of a very accurate clockwork concealed within the cylinder. Furnished with scales, ink, etc. sufficient for 1 year.

- 4325. Barograph or Recording Barometer, scale from 28 to 31 inches, in polished mahogany case, hinged cover and glass-paneled front each, \$52.00
- 4326. Thermograph or Recording Thermometer, scale reading from 60° to + 128° F. with recording lumina inside. Equipped with 8-day cylinder clock and Kew Certified mercury thermometer for comparison of reading Fahrenheit, in weatherproof metal case, copper-hinged cover and glass-paneled front and padlock, each, \$50.00
- 4327. Hygograph or Recording Hygrometer, scale from 0 to 100 per cent. moisture by single per cent., in weatherproof metal case, hinged cover and glass-paneled front.....each, \$60.00
Extra charts for above.....per set of 55, 2.50

RAIN GAUGES



4330

Howard's Pattern Gauge



4332

Glaisher's Pattern Gauge

4330. Howard's Gauge comprising glass bottle with brass-rimmed japanned funnel, 5 inches in diameter, graduated glass measure to show $\frac{1}{100}$ inch of rainfall.....each, \$3.25

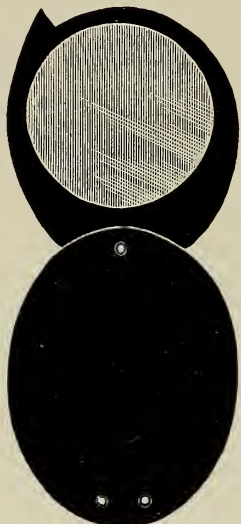
4332. Glaisher's Gauge, a reliable instrument with brass-trimmed japanned funnel 8 inches diameter with cup and graduated glass measure to show $\frac{1}{100}$ inch rainfall To be sunk in ground within 8 inches of top. Evaporation impossible even in the warmest season. Each, \$7.50



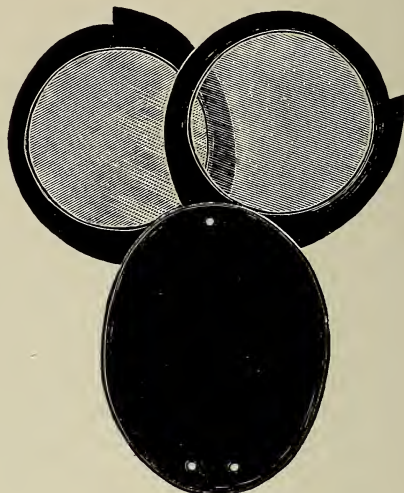
TECHNICAL SUPPLY COMPANY
SCRANTON, PA.



POCKET MAGNIFIERS

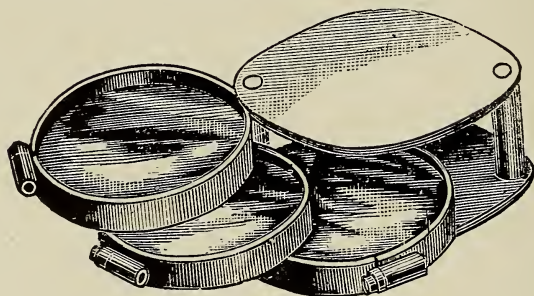


4350



4352

4350. Mounted in rubber, 1 lens, 1 inch in diameter.....each, \$.35
4351. Mounted in rubber, 1 lens, 1½ inches in diameter.....each, .55
4352. Mounted in rubber, 2 lenses, 1 inch in diameter.....each, .60
4353. Mounted in rubber, 2 lenses, 1½ inches in diameter.....each, 1.00

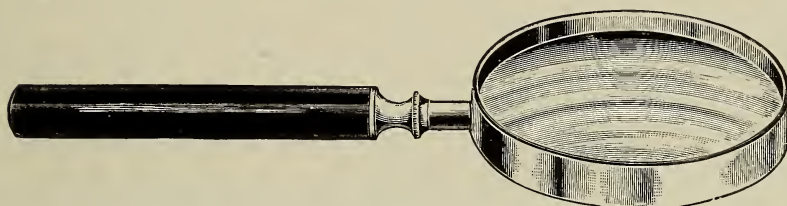


4357

4355. Mounted in metal, nickel plated, 1 lens, 1 inch in diameter...each, \$.75
4356. Mounted in metal, nickel plated, 2 lenses, 1 inch in diameter, each, 1.25
4357. Mounted in metal, nickel plated, 3 lenses, 1 inch in diameter, each, 1.75

READING AND PICTURE GLASSES

Finest Quality



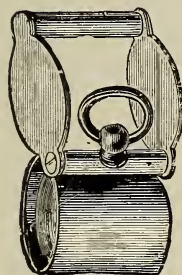
4360

4360. These Reading and Picture Glasses are of superior magnifying power, and mounted in round nickel-plated frames, with ebony handles.

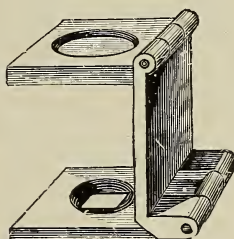
Size, in Inches,	1½	2	2½	3	3½	4	4½	5
Each	\$1.55	\$1.75	\$1.15	\$1.25	\$1.75	\$2.20	\$3.00	\$3.75

MAGNIFYING GLASSES

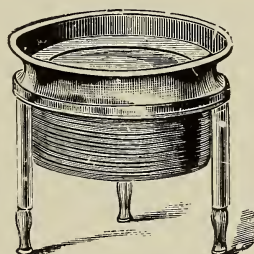
Finest Quality



4370



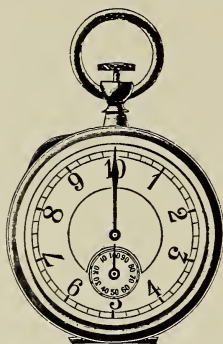
4375



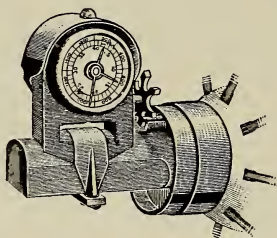
4380

4370. Coddington Lens, metal folding frame, nickel plated, ½ inch diameter each, \$1.50
4371. Coddington Lens, metal folding frame, nickel plated, 1 inch diameter each, 2.10
4372. Coddington Lens, metal folding frame, nickel plated, 1½ inches diameter each, 3.60
4375. Thread Counter, brass frame, ½ inch field.....each, .40
4380. Magnifier, on three legs, brass, screw adjustment, 1 inch diameter each, .60

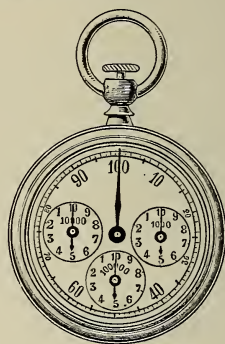
PEDOMETERS AND ODOMETERS



4501



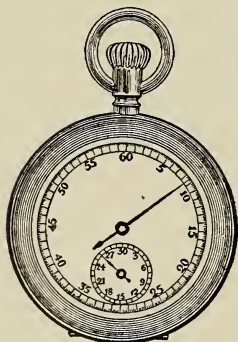
4507



4505

- 4500. Pedometer, enamel dial, watch pattern, nickel case, registering distance walked to 12 miles in $\frac{1}{4}$ miles.....each, \$4.50
- 4501. Pedometer, enamel dial, watch pattern, nickel case, crystal back, registering distance walked to 100 miles in $\frac{1}{4}$ miles.....each, 5.25
- 4502. Passometer, watch pattern, nickel case, with three hands, registering 25,000 steps, with fly-back action.....each, 6.00
- 4505. Passometer, watch pattern, nickel case, with four hands, registering 100,000 steps, with fly-back action.....each, 6.50
- 4505A. New Improved Pedo Passometer, with pattern, nickel case, marking from 80 yards to 100..... 5.50
- 4505B. Marking from 80 yards to 1,000 miles..... 6.50

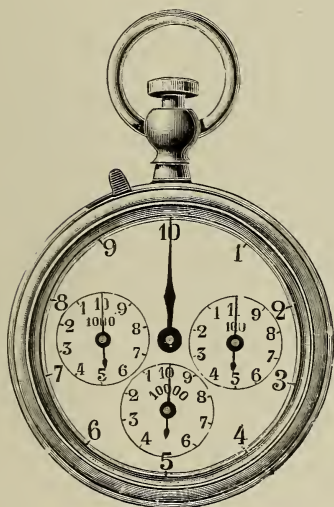
STOP WATCH



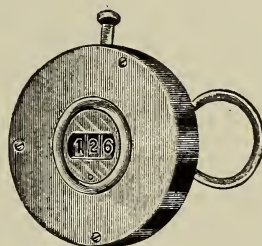
4530

- 4506. Odometer, inside dial, with leather case and straps each, \$15.00
- 4507. Improved Bell Odometer, registers distance traveled to 1,600 miles and repeats; rings a small bell as each mile is passed each, 6.00
- 4530. Stop Watch, stem winder, nickel-plated case, porcelain dial, registering to 30 minutes by $\frac{1}{5}$ second; fly-back, engaging and disengaging mechanism..each, 6.00

TALLY REGISTERS



4522



4525

4525. Tallying Machine, nickel plated, for keeping count by pressing on a lever; registers to 999.....each, \$2.50

Tally Registers for surveyors, freight clerks, etc. For keeping count by pressing on knob. Useful in chaining, for counting passenger cars, cattle, sheep, coal, or wheat. Nickel plated; watch pattern with lever for setting hands to zero.

4520. With 3 dials, registering 1,000 pressures.....each, \$4.00

4522. Same as 4520, with 4 numbered dials registers to 1,000..... 5.50



"THE FAMOUS HANDBOOKS"



4600

Written by recognized authorities. Complete in every detail; built like a de luxe edition and accepted as authoritative by business men, engineers, and corporation reference libraries. Each book is fully illustrated and accurately indexed. You can find what you want in a jiffy.

These wonderful little books are $3\frac{1}{2}$ inches by $5\frac{1}{2}$ inches by $\frac{3}{4}$ inches and more, contain an average of 368 pages and 142 illustrations.

Bound in cloth, gold titles, and red edges.....each, \$1.25

Bound in full morocco, gold titles, and red edges.....each, 1.50

Description of each volume follows.



“THE FAMOUS HANDBOOKS”—Continued

4601. Building Trades Handbook

All persons connected in any way with the building trades, and every household, should possess this little Handbook. It is full of handy pointers, rules, and sketches that never before have been published.

Arithmetic: Signs Used; Fractions; Involution and Evolution; Decimal Equivalents of 64ths. **Weights and Measures:** Metric System; Specific Gravities and Weights. **Formulas, Mensuration:** Lines and Plane Surfaces; Solids and Curved Surfaces; Circumferences and Areas of Circles from 1-64 to 100. **Geometrical Drawing.** **Structural Design:** Loads on Structures; Strength of Materials; Properties of Sections; Columns; Beams and Girders; Strength of Rivets and Pins; Roof Trusses; Arches. **Masonry:** Materials of Construction; Footings and Foundations; Masonry Construction; Arches; Retaining Walls. **Carpentry and Joinery.** Woods used in Building; Qualities of Timber; Carpentry Joints; Balloon Framing; Roof Framing; Miscellaneous Notes; Joinery. **Roofing.** **Plastering.** **Plumbing:** Sanitary Maxims; Drainage System; Plumbing Fixtures; Water Supply and Distribution; Plumbers' Tables. **Heating and Ventilation:** Steam Heating; Exhaust-Steam Heating; Hot-Water Heating; Furnace Heating; Ventilation. **Gas and Gas-Fitting:** Gas; Gas-Fitting. **Estimating:** Approximate Estimates; Stonework; Brickwork; Carpentry; Joinery; Roofing; Plastering; Painting and Papering. **Elements of Architectural Design:** Proportions of the Greek and Roman Orders; Moldings. (Contains 372 Pages and 189 Illustrations.)

A Useful Handbook for Builders

A Handbook published by the International Textbook Company, forms a very convenient pocket-size manual of reference for those engaged in construction of all kinds. There is much information that is new and hitherto unpublished. This Handbook will be found a valuable aid to architects, engineers, contractors, and artisans in every branch of the trade.

NATIONAL CONTRACTOR AND BUILDER

4602. Electrical Engineer's Handbook

This Handbook should be owned by electrical experts, employes of electrical factories, power plants, and railroads; also by managers, inventors, draftsmen, and students. The contents are thoroughly up to date and in accord with the latest requirements.

Useful Tables: Weights and Measures; Metric System; Weight and Specific Gravity of Various Substances; Chemistry and Electrochemistry; Heat; Temperature; Mathematical Tables; Mensuration. **Mechanics:** Falling Bodies; Centrifugal Force; Parallelogram of Forces; Work and Power; Belts, Shafting, etc. **Electricity and Magnetism:** Electrical Units, Symbols, and Quantities; Magnetism. **Direct-Current Dynamos and Motors:**



TECHNICAL SUPPLY COMPANY SCRANTON, PA.



"THE FAMOUS HANDBOOKS"—Continued

Armature Windings; Armature-Winding Data; Tests for Locating Faults; Parallel Running; Motors; Electric-Motor Driving; Diseases of Dynamos and Motors. **Electric Batteries:** Primary Batteries; Storage Batteries; General Data on Storage Cells; Storage Battery Regulation. **Alternating-Current Apparatus:** Alternating Current; Alternators; Combined Operations; Motors; Transformers. **Alternating-Current Wattmeter Measurements:** Wattmeters; Practical Management of Recording Wattmeters. **Electric Transmission:** Electric Circuits and Systems of Distribution; Line Conductors for Alternating Current. **Electric Lamps:** Incandescent Lamps; Arc Lamps. **Interior Wiring:** Wires; Circuit-Opening Devices; Systems of Installation; Wiring for Minor Electric Appliances. **Miscellaneous Applications:** Electrodeposition of Metals; Electroplating; Electric Heating; Electromagnets. **Electric-Car Controllers:** Series-Parallel Control; Installation of Car Wiring; Multiple-Unit Systems. **First Aid to the Injured.** (Contains 414 Pages and 238 Illustrations.)

4603. Advertiser's Handbook

In publishing the Advertiser's Handbook, the needs of the business man were kept in view. It is a safe guide to any that have merchandise or service to sell, for it will help solve many advertising problems.

Type and Type Measurements. Type faces. Points on Printing Style: Capitalization; Use of Figures; Abbreviations; Italicizing; Consistency in Style. **Advertisement Display.** **Engraving and Printing Methods:** Half-Tone Engraving; Color Plates; Cost of Photoengravings; Lithography; Wood Engraving; Embossing; Electrotypes; Make-Up; Make-Ready; Paper; Terms in Common Use. **Advertisement Illustration.** **Advertising Mediums:** General Magazines; Mail-Order Magazines; Newspapers; Miscellaneous Mediums; Advertising Novelties. **Retail Advertising:** Retail Advertising Mediums; Newspapers; Supplemental Advertising Methods; Circular Advertising; Advertising Campaign; Planning for the Year; Sales Plans. **Department-Store Advertising:** Organization; Advertising Policy; Collection of Material; Forming the Advertisement; Reinforcing the Advertising; Mailing Lists; Specific Sales; Ratio of Cost to Sales; Keeping of Records. **General Advertising:** Trade Channels of Manufacturers; Trade Marks; Influence of Article on Sales; General Advertising Methods; Planning the Campaign. **Class-Publication Advertising:** Technical-Paper Advertising; Trade-Paper Advertising; Technical- and Trade-Paper Conditions. **Mail-Order Advertising:** Selling Plan; Cooperation of Customers. **Circular Advertising:** Planning Circular Matter; Size, Number of Pages, and Binding; Covers and Color Harmony; Illustrations for Inside Pages; General Plan. **Form Letters and Follow-Up Systems:** Records and Card Forms; Mailing Lists; Postage. **Street-Car Advertising.** **Out-Door Advertising:** Bill Posting; Signs. **Keying and Checking Advertisements.** **Advertising Agencies.** **Miscellaneous Points for Advertisers.** (Contain 413 Pages and 11 Illustrations.)



“THE FAMOUS HANDBOOKS”—Continued

4604. Stenographer's and Correspondent's Handbook

This Handbook should be owned by stenographers, correspondents, and all that are interested in work of this kind. The contents will be of value to any one in touch with present-day commercial life.

Stenography: Advice to Beginners; Business Office Dictation; Technical Terms. **Commonly Used Foreign Words and Phrases.** **Punctuation.** **Capitalization.** **Correct and Faulty Diction.** **Business Correspondence:** Clearness; Courtesy; Logic in Letter Writing; Sales and Soliciting Letters; How to Settle a Complaint; How to Collect Money by Letter; Foreign Correspondence. **Suggestions to Correspondents.** **Typewriting:** General Instructions and Suggestions; Correct Form and Style; Division and Compounding of Words; Abbreviations; Folding, Backing, Addressing, and Mailing. **Two-Hundred-Year Calendar.** **Cables, Telegrams, Wireless Messages, Telephoning, Express.** **Steamships of the Principal Ocean Lines.** **Domestic Mail:** Classes and Rates. **Foreign Mail:** Rates of Postage; Parcels Post. **Miscellaneous Postal Information.** **Modern Office Methods:** Methods of Copying; Filing; Card Systems; Loose-Leaf Record Books; Office Methods and Devices; Conducting a Public Stenographic Office; Duplicating Work; Law Forms. **Court Reporting.** **Civil Service.** **Methods of Sending and Carrying Money:** Checks and Drafts; Money Orders; Letter of Credit; Traveler's Checks. **Hints on Banking.** **Interest.** **Bank Discount.** **Partial Payments.** **Useful Tables.** (Contains 422 Pages and 96 Illustrations.)

A Very Great Help

I have had one of your Handbooks in the office for some time; and the information it contains—the clear and lucid way in which it is written—has been of very great help to me in many instances.

H. G. TRUMP, Advertising Manager,
The Pere Marquette Railroad Co

4605. Bookkeeper's Handbook

This Handbook is worthy of a place on the desk of every housekeeper, banker, business man, and office worker. It is the result of years of experience in compiling such information.

Arithmetic: Measures of Extension; Measures of Weight; Measures of Capacity; Measures of Time; Measures of Angles and Arcs; Measures of Money. **Miscellaneous Tables:** Formulas; Mensuration; Percentage; Interest; Bank Discount; Partial Payments; Equation of Payments; Equation of Accounts; Table of Wages; Standard of Time; Abbreviations. **Money and the Money Market.** **Business Law:** Definitions of Financial Terms; Commercial Paper; Contracts; Agency; Partnership; Corporations; Banks and Banking; Interest Rates; Legal Holidays. **Postal Information:** Classes of Mail Matter; Rates of Postage; Money Orders and Special Delivery; Distances and Time Between Various Places. **Bookkeeping:**



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



"THE FAMOUS HANDBOOKS"—Continued

Useful Information; Business Forms; Card Indexes; Card Systems; Modern Office Methods; Cost Accounting; Bank Bookkeeping; The Clearing House. (Contains 302 Pages and 130 Illustrations.)

High Praise From Another Editor

We have received the copy of the Electrical Engineer's Handbook and desire to express our appreciation of it.

The writer, who is an electrical engineer, believes this Handbook to be the most thorough and concise of the kind published. It contains all the information requisite for every-day practice, unless the engineer should be engaged in special lines. We shall review this book very favorably in the coming issue of our magazine.

NEWTON C. EVANS, General Editor,
American Journal, Philadelphia

Fills a Want

I wish to acknowledge with thanks the receipt of the Business Man's Handbook. It is up to your usual standard and to me fills a long felt want.

D. C. SHELLEY, Mayer, Ariz.

4606. Telephone and Telegraph Engineers' Handbook

This should be in the hands of all persons interested in telephone or telegraph operation or construction. It is full of facts about storage batteries, telephone service, telephone and telegraph apparatus and systems, wireless telegraphy and wireless telephony.

Useful Tables: Weights and Measures; Metric System; Weight and Specific Gravity of Various Substances; Chemistry and Electrochemistry; Heat; Temperature; Mathematical Tables; Mensuration. **Mechanics:** Falling Bodies, Centrifugal Force; Parallelogram of Forces; Work and Power; Belts; Shafting, etc. **Electricity and Magnetism:** Electrical Units, Symbols, and Quantities; Magnetism. **Primary Batteries:** Internal Resistance and Current Calculations; Storage Batteries. **Electrical Measurements:** Electrostatic Capacity; Measurement of Inductance; Potentiometer; Calibration of Voltmeters; Calibration of Ammeters; Ohmmeters; Measurement with Commercial Instruments; Measurement of Power; Location of Faults; Tests for Locating a Break; Tests for Locating a Ground; Locating Crosses; Rough Tests. **Telephony:** Telephone Apparatus; Disturbances in Telephone Lines; Telephone-Exchange Systems; Interior Systems; Hotel Telephone Systems; Telephone Relays; National Electrical Code. **Telegraphy:** Morse Telegraph Systems; Telegraph Repeaters; Multiplex Telegraphy; Simultaneous Telegraphy and Telephony; Wireless Telegraphy; Wireless Telephony. **Electrolysis of Cable Sheaths.** (Contains 398 Pages and 170 Illustrations.)

The Best He's Seen

Since I have looked through the Handbook, I easily can see that it is one of the best things of its kind I ever saw; and it has much new data that we haven't yet got hold of down in Texas.

ALBERT S. KNIGHT, Dallas, Tex.



"THE FAMOUS HANDBOOKS"—Continued

4607. Mariners' Handbook

This is a reference volume for navigators, yachtsmen, and seamen of all classes, as well as for all persons interested in the navy, the merchant marine and nautical matters generally. The up-to-date navigator, the student, and all enlisted men will find this book of great value.

Useful Tables: Weights and Measures; Measures of Money. **Arithmetic:** Common Fractions; Proportion; Evolution; Percentage. **Mensuration:** Circle; Triangles; Rectangle and Parallelogram; Trapezoid; Trapezium; Ellipse; Sector; Segment; Cylinder; Frustum of Cylinder; Prism or Parallelopiped; Frustum or Prism; Sphere; Circular Ring; Wedge; Logarithms. **Trigonometry:** Illustrations of Trigonometry Applied in Practice. **Navigation:** Compass Error; Terrestrial Navigation; Celestial Navigation. **United States Navy:** Organization of the Navy; Organization of a Man-of-War; Classification of War Ships; Naval Ordnance; Explosives; Torpedoes. **Ship Building:** Principles of Construction. **Notes Relating to Speed, Tonnage, and Coal Consumption of a Steam Vessel:** Speed of Vessels; Tonnage and Displacement; Fuel Consumption and Speed. **Ropes:** Splices and Bends. **Wind and Weather:** Hurricanes. **Signals:** International Code of Signals. **Nautical Memoranda:** To Restore Apparently Drowned Persons. **U. S. Naturalization Laws:** Custom-House Fees. (Contains 324 Pages and 110 Illustrations.)

Why It Is Liked

I like your Handbook because you appear to have made as good a selection as possible from the vast amount of material that might be embodied in such a book and have still kept it of pocket size. I like the arrangement and the printing, and the diagrams, every one of which is clearly and nicely done. The material in this Handbook is of such a nature it will be of great benefit to all users.

H. W. YOUNG, Editor,
Popular Electricity Publishing Co., Chicago

4608. Business Man's Handbook

Business men, clerks, office workers, all employes of banks, and all persons having to do with patents, copyrights, and trade marks will save money by having this Handbook. In it are stated the principles every man must know to conduct his affairs intelligently and safely. Over 175,000 copies have been printed.

Arithmetic: Measures of Extension; Measures of Weight; Measures of Capacity; Measures of Time; Measures of Angles and Arcs; Measures of Money; Miscellaneous Tables; Formulas; Mensuration; Percentage; Interest; Bank Discount; Partial Payments; Equation of Payments; Equation of Accounts. **Business Forms:** Making Deposits. **Card Systems.**



"THE FAMOUS HANDBOOKS"—Continued

Table of Wages. Values of Foreign Coins. Duties on Imports. Book-keeping. Stenography. Standard Time. Correspondence: Abbreviations; Helps in Writing. Proof Reading. Postal Information. Definitions of Financial Terms. Money and the Money Market. Brokers and Brokerage. Patents, Copyright, and Trade Marks. Corporations. Business Law: Contracts; Sales of Personal Property; Exemption of Property from Sale; Commercial Paper; Partnership; Banks and Banking; Agency; Insurance; Landlord and Tenant; Carriers. Statutes of Limitations: United States Bankruptcy Law; Interest Rates; Legal Holidays; Naturalization Laws; Passport Regulations of the United States. Publicity: Advertising; Window Dressing; Signs. (Contains 315 Pages and 57 Illustrations.)

Carry the Handbook With You

For the studious young man the International Correspondence Schools are now offering another edition of the Plumbers and Fitters' Handbook. The book contains nearly 400 pages, with a well-arranged index. It needs to be carried only a short time to be highly valued.

THE METAL WORKER, New York

4609. Mechanics' Handbook

Over 317,000 copies of this volume have been published. Machinists, toolmakers, blacksmiths, patternmakers, foundrymen, draftsmen, railroad men, surveyors, miners, engineers, firemen, and others use it. It helps to solve quickly any of the ordinary problems that arise in mechanical practice.

Useful Tables: Weights and Measures; Metric System; Tempering of Steel; Specific Gravity; Wrought-Iron Chain Cables; Heat; Alloys; Steam Tables; Logarithms; Trigonometric Functions; Prime Numbers; Prime Factors; Circumferences and Areas of Circles from 1-64 to 100. **Formulas:** Involution and Evolution; Decimal Equivalents of 64ths. **Mensuration.** **Mechanics:** Center of Gravity; Moment of Inertia; Center of Oscillation; Center of Percussion; Radius of Gyration; Moment of Resistance; Belting; Hydromechanics. **Strength of Materials.** **Boilers:** Boiler Design; Care and Inspection of Boilers; Horsepower of Boilers; Chimneys; Exhaust Heating. **Machine Design:** Blueprints; Machine Tools; Horsepower of Engines, Boilers, and Pumps; The Slide Valve; Belt Pulleys; Rope Belting; Transmission of Power by Wire Rope; Cylinders and Steam Chests. **Electricity:** Practical Units; Currents; Wiring; Dynamos and Motors; Batteries; Cable Testing. **Surveying:** Compass Surveying; Transit Surveying; Triangulation; Curves; Leveling; Radii and Chord and Tangent Deflections; Retaining Walls; Calculation of Earthwork; Trackwork; Two-Hundred-Year Calendar. (Contains 330 Pages and 174 Illustrations.)

A Popular Book

The first edition of this well-known Mechanics' Handbook was issued in 1893, in the form of a notebook containing 74 pages. It since has passed into the seventh edition and been greatly improved and enlarged. Its popularity is tested to by the fact that the copy in review is of the 317th thousand.

MACHINERY, New York



“THE FAMOUS HANDBOOKS”—Continued

4610. Plumbers and Fitters' Handbook

For plumbers; gas fitters; steam fitters; sanitary, ventilation, heating, and civil engineers; salesmen; and men of all the allied trades. It is the only book of its kind ever published.

Arithmetic: Signs Used; Fractions; Involution; Involution and Evolution Table. **Weights and Measures:** Metric System; Specific Gravities and Weights. **Formulas.** **Mensuration.** **Geometrical Drawing:** Blueprints. **Mechanics:** Mechanical Powers; Hydromechanics. **Building Construction:** Weights; Materials of Construction. **Heating and Ventilation:** Heat; Air; Steam; Ventilation; Loss of Heat from Buildings; Fuels; Boilers; Hot-Air Furnace Heating; Steam Heating; Hot-Air Heating; Blower Systems of Heating. **Gas and Gas-Fitting:** Gas, Gas-Fitting. **Plumbing:** Plumbing Materials; House-Drainage System; Sanitary Maxims; Plumbing Fixtures; Drainage and Sewerage; Water Supply and Distribution; Useful Information for Plumbers. (Contains 375 Pages and 148 Illustrations.)

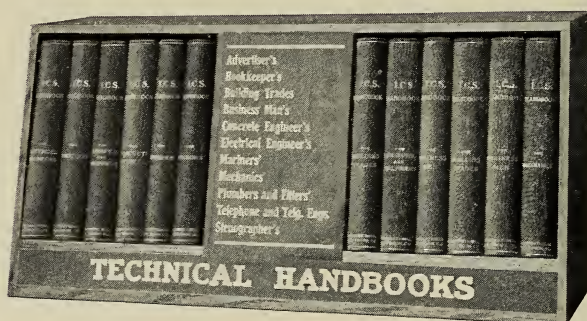
4611. Concrete Engineer's Handbook

For architects, engineers, contractors, farmers, house owners, and others interested in concrete.

Tables: Weights and measures; Conversion Tables; Tables of Circumference and Areas; Decimal Equivalents. **Mathematics:** Formulas; Involution and Evolution; Mensuration. **Loads in Structures:** Dead Loads; Tables of Weights of Material; Live Load; Snow and Wind Load; Disposition of Load. **Mechanics:** Forces Acting on Beams; Continuous Beams; Stresses, Strains; Elastic Properties; Factor of Safety. **Homogeneous Beams:** Properties of Sections; Moment of Inertia; Radius of Gyration; Neutral Axis; Section Modulus; Properties of Rolled Steel Shapes; Bending Moment Formulas; Modulus of Rupture; Weight of Beams; Deflection; Suddenly Applied Loads. **Columns:** Wooden Columns; Iron Columns. **Sands and Cements:** Lime; Cement; Sand; Mortar; Testing Cement; Field Inspection; Sampling; Cement Specifications. **Plain Concrete:** Materials Used; Proportioning of Ingredients; Properties of Concrete; Working Stresses and Strength of Concrete; Mixing and Working of Concrete. **Steel Reinforcement:** Theory of Steel Reinforcement; Types of Reinforcing Steel; Systems of Steel Reinforcement; Loose Rod Systems; Fabricated Systems. **Designs of Concrete Structural Members:** Plain Concrete Beams; Plain Concrete Columns; Reinforced Concrete Beams; Double Reinforced Beams; T Beams; Reinforced Concrete Columns; Arches. **Foundations:** Comparative Values of Soil; Cantilever Foundations. **Building Details:** Eaves, Cornices; Brick and Terra Cotta Fastenings; Beam Sockets. **Form Work:** System of Forms; Construction of Forms. **Waterproofing of Concrete:** Integral Method; Superficial Method; Membrane Method. **Field Operations:** Batch Mixes; Continuous Mixes; Quantitative Mixes; Operation of Mixtures. **Building Laws, Specifications, and Cost.** (Contains 368 Pages and 230 Illustrations.)



"TEC" HANDBOOKS AND DISPLAY CASE



4625

Contains twelve Handbooks assorted to meet the requirements of any technical library—or for display in any book store.

This handsome case is a uniformly finished mission. The announcement titles on the front are gold on black imitation leather. The whole structure is so neatly and attractively finished and planned that it cannot appear out of place in the most refined and elegant surroundings.

Corporations and Technical Libraries will find these books and display case a valuable part of their working equipment, and dealers will find them effective in reaching technical patronage.

Send for Special Circulars.



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.

INDEX

A

Abney's Levels	351
Adhesive Tape	12
Adjustable Curve Rulers	196
Air Meter	363
Alt-Azimuth	352
Alt-Azimuth, Pocket	352
Alumnus White Drawing Paper	3
Amber Curves	197, 198, 199
Amber Lined Straight Edges	188
Amber Protractors	176-177
Amber T Squares	193-194
Amber Triangles	185-186
Anemometers	363-365
Anemometers, Biram's	364
Aneroid Barometers	360, 362, 361, 364
Angle Mirrors	349
Angles, Lettering	187
"Apache" Tracing Paper	10
Arkansas Oilstones	227
Arrows	281
Artificial Horizon	349
Artists' Pencils, Swan	241
Artists' Water Glasses	227
Anthracite Black Line Paper	16
Ash Straightedges	188
Atomizer	230
Attachments for Drawing Tables	215
"Azure" Tracing Paper	15

B

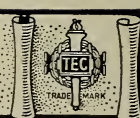
Barograph	366
Barometer, Recording	366
Barometers	360-361, 364
Bars for Beam Compasses	195
Bath Trays	29
Beam Compass Bars	195
Beam Compasses	61-63, 98, 110
Beegee Ink Erasers	254-255
Bevel Protractors	182
Biram's Anemometers	364
Bissell's Show-Card Colors	228
Black Print Paper	16
Blackboard Dividers	140
Blocks, Cross-Section	40

Blocks, Sketch	40
Blue- and Brown-Print Papers and Cloths	17-23
Blueprint Baths	29
Blueprint Tracks for Cars	29
Blueprint Clips	236
Blueprint Felt	27
Blueprint Frames	27, 28
Blueprint Machines	30-32
Blueprint Paper and Cloths	17-21
Blueprint Papers, Unprepared	19
Board, Bristol	5
Boards, Drawing	205-207
Boards, Illustration	5
Boards, Mounting	5
Boat Compasses	294
Bond Drawing Paper, in Sheets	3
Bond Drawing Paper, in Rolls	10
Books, Cross-Section	42-43
Books, Engineers' Field	42-45
Books, Level	44-45
Books, Transit	44-45
Border Pens	50
"Boston" Drawing Table	214
Boucher Calculator	158
Bow-Compasses	52-54, 56, 74, 92-94, 108, 120-121, 136
Bow Dividers	52-55, 74, 92-94, 108, 120-121, 136
Bow Pens	52-55, 74, 92-94, 108, 120-121, 136
Boxes, Empty Japanned Tin	224
Boxes, Water-Color	220-221, 224-225
Boxwood Protractors	174
Boxwood Scales, Flat	164-166, 169-170
Boxwood Scales, in Sets	169-170
Boxwood Scales, Triangular	171
Brass Protractors	174
Bristol Boards	5
Brown-Print Papers and Cloths	22-23
Brunton Pocket Transit	292
Brush, Pellucidine	25
Brushes	229-232
Brushes, Water Color	229-232
Buckeye Electric Blueprinting Machine	32
Buff Drawing Paper, in Rolls	8
Buff Drawing Paper, in Sheets	3



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



C

Cabinet Saucers, Porcelain	226
Cabinets, Filing	216-218
Calipers	357
Calculator, Boucher	158
Camel's-Hair Brushes	229-232
Cardboard Scales	173
"Carlisle" Tracing Paper	14
Cases for Drawing Instruments	142
Celluloid Erasing Shield	256-257
Chain Scales	165
Chain Tapes	273-277, 280
Chains, Steel	281
Chalk, Pencils, Colors	248
Charcoal Paper	4
Cherry Straightedges	188
Cherry T Square	189
Cherry Triangles	183
"Chicago" Drawing Tables	212
Clamp Handles for Steel Tapes	278
Clinometers	291-292
Clips, Blueprint	236
Cloths, Blueprint	20-21
Cloths, Brown-Print	22-23
Cloths, Cross-Section	34-35
Cloths, Pellucidine	25
Cloths, Profile	34-35
Color Dishes	226
Color Pencils	247-248
Color Saucers	226
Colors, Liquid	224
Colors, Show-Card, Bissell's	228
Colors, Water	219-223, 225
Compass, Miners'	295
Combination Curves	198
Combination Punch and Eyelet Clip	261
Compasses, Beam	61-63, 98, 110
Compasses, Boat	294
Compasses, Drawing	57-60, 76, 96-97, 104, 109, 121, 133, 136
Compasses, Lithographic	110
Compasses, Magnetic Pocket	285-287
Compasses, Military	288
Compasses, Miners'	295
Compasses, Surveying	289-291
Copenhagen Ship Curves	199
Copying Pencils	246
Cord, Plumb-Bob	296
Crayons, Lumber	241
"Cree" Tracing Paper	14
Cross-Section Blocks	40
Cross-Section Books	42-43
Cross-Section Cloths	34-35
Cross-Section Papers	35-40
Cross-Staff Head	349

Curve Pens	49, 91
Curve Rulers	196
Curves, Irregular	197-199
Curves, Railroad	200-204
Curves, Ship	199
Cutters, Paper	236

D

Detail Paper	6
Display Case for Pencils	249
Display Case for Tapes	263
Dividers, Blackboard	140
Dividers, Bow	52-55, 74, 92-94, 108, 120-121, 136
Dividers, Hairspring	57, 75, 95, 104, 109, 120
Dividers, Plain	57, 75, 95, 104, 109, 120, 133, 136
Dividers, Pocket	75
Dividers, Proportional	64, 99, 110
Dotting Pens	50, 91, 107
Drafting Machine	159-160
Draftsman's Protractor	181
Drawing Board Trestles	209
Drawing Board Paste	237
Drawing Boards	205-207
Drawing Compasses	(See Compasses)
Drawing Ink, "Tesco," Waterproof	144a
Drawing Instrument Cases	142
Drawing Instruments	46-145
Drawing Outfits, Students'	143-144
Drawing Paper	3-4, 6, 8-12
Drawing Pencils, Swan	239-240
Drawing Table Attachments	215
Drawing Table Tops	207
Drawing Tables	207, 218
Drawing Tables, Metal	210-214
Drawing Tables, Wooden	207-209

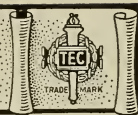
E

Eggshell Drawing Paper	9
Electric Blueprinting Machines	30-31-32
Embankment Triangles	187
Engineering and Surveying Instruments	302-348
Engineers' Field Books	42-45
Engineers' Transits and Levels	302-344
Erasers	250-255
Erasers, Ink	250-255
Erasers, Kneaded	251
Erasers, Pencil and Ink	250-251, 255
Erasers, Pencil Form	252
Erasers, Steel	254
Erasers, "Tec" Green	250
Erasers, "Tec" Pliable	250
Erasers, "Tec" Red	250



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



Erasers, "Tec" Sponge	250
Erasers, Typewriter	252
Erasing Fluids	24
Erasing Shields	256-257
Explorers' Transits	324-325
Eyelets	261

F

Fasteners, Paper	260-261
Felt for Printing Frames	27
Field Books	42-45
File and Tack Lifter	253
Filing Cabinets	216-218
Fixatif	230
Flat Boxwood Scales	164-166, 169-170
Flat White-Edge Scales	167-168
Flesh Pencils	248
Flexible Leveling Rods	284
Folding Pocket Rules	149-152
Frames for Blueprinting	27-28

G

Gardam Section Liner	148
"Germania" Tracing Paper	15
Gillott's Steel Pens	258
Glass Writing Pencils	248
Glasses, Artists' Water	227
Glasses, Magnifying	368-369
Gauges, Rain	367

H

Hair-Spring Dividers	57, 75, 95, 104-109, 120
Hand Levels	350
Handbooks of Reference	272-280
Handles, Clamp, for Steel Tapes	278
Handles, Tension, for Steel Tapes	278
Hardwood T Squares	189-194
Hardwood Triangles	183
Hatching Pens	107
Horn Centers	236
Trestles for Drawing Boards	209
Horizon, Artificial	349
Hydrograph	366
Hygrometer, Recording	366

I

Ink Holder	259
Ink and Pencil Eraser	250-255
Ink Eraser	250-255
Ink Slabs	225
Ink, "Tesco" Waterproof Drawing	144a
Instruments, Drawing	46-145
Instruments, Repairing	141

Instruments, Recording	366
Irregular Curves	197-199
"Iroquois" Tracing Paper	14
Ivory Protractors	174

J

Japanned Tin Boxes	224
"Junior" White Drawing Paper, in Rolls	8
"Junior" White Drawing Paper, in Sheets	3
"Jupiter" Pencil Sharpener	255

K

Klener "Tec"	250
Kneaded Rubber	251

L

"Lackawanna" Drawing Table	209
Lamps, Miners' Safety	297-301
Lead Pencils	238-249
Leads	241
Lettering Angles	187
Lettering Templates	187
Leveling Rods	282-284
Leveling Rod, Pocket	284
Levels, Abney	351
Levels, Architects'	344-345
Levels, Dumpy	342-343
Levels, Engineers'	302-343
Levels, Hand	350
Levels, Slope Level	353
Levels, Wye	334-346
Lineads, Perspective	195
Lithographic Compasses	110
Logarithmic Curves	198
Lumber Crayons	241

M

Machine Blueprint	30-32
Magnetic Pocket Compasses	285-287
Magnifying Glasses	368-369
Mahogany Straightedges	188
Mahogany T Squares	191-192
Mahogany Triangles	184
Map Measures	153
Maple T Squares	190, 193-194
Matt Boards	5
Metal Curves	201
Metal Erasing Shields	256-257
Metal Tubes	26
Metallic Tapes	270-272
Meter, Air Portable	363
Metric Scales, Flat	165



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



Metric Scales, Triangular	171
"Mica" Tracing Paper	15
Military Compasses	288
Millimeter Cloths	32
Millimeter Papers	34
Miners' Compass	295
Miners' Safety Lamps	297-301
Mining Barometers	362
Monochrome Illustration Boards	5
"Moro" Tracing Paper	14
Mountain and Mining Transit	302
Mounted Drawing Papers in Sheets	10
Mounting Boards	5
Multiplex Rubbers	251
Municipal Transit	316-317

N

Nautical Sundries	348
"New York" Drawing Tables	211
Night Marching Compass	288
Numbering Tacks	233

O

Octants	348
Odometers	370
Office Pencils, Colored	248
Offset Scales	165
Oilstones	227
Opisometer	50
Outfits, Students' Drawing	143-144

P

Pantographs	146-147
Paper, Black Print	16
Paper Cutters	236
Paper Fasteners	260-261
Paper Protractors	174
Paper Scales	173
Paper, Tracing, in Rolls	14-15
Paper, Tracing, in Sheets	15
Papers, Blueprint	17-21
Papers, Brown-Print	22-23
Papers, Cross-Section	35-40
Papers, Drawing	3-4, 7-12
Papers, Millimeter	34
Papers, Profile	33-34
Papers, Pellucidine	25
Papers, Sepia Solar	22-23
Parallel Ruler Attachment	194
Parallel Rules	163
"Parchment" Tracing Paper	15
Passometer	370
Paste, Drawing Board	237

Paste, "Tec" Photo	237
Pasteboard Tubes	26
Pedometers	370
Pellucidine	24
Pellucidine, Brush	25
Pellucidine, Cloth	25
Pellucidine, Paper	25
Pencil Form Eraser	252
Pencil Pointer, Steel	253
Pencil Pointers	253
Pencil Sharpeners	253, 255
Pencil Sharpeners, Sandpaper	253
Pencils	238-248
Pencils, Spring Bow ... (See Bow-Pencils)	
Pencils, Copying	246
Pencils, Drawing, Swan	240
Pencils, Pocket	242-243
Pencils, Sharpeners	255
Penholders	260
Pens, Automatic Shading	260
Pens, Border	50
Pens, Bow ..52-56, 74, 92-94, 108, 120-121, 136	
Pens, Curve	49, 91
Pens, Dotted	50, 91, 107
Pens, Hatching	91, 107
Pens, Railroad	50, 107
Pens, Round Writing	259
Pens, Ruling	49, 51, 72, 89, 90-91, 104, 106-107, 120, 133-136, 145
Pens, Steel	258-259
Pens, Swedish	51, 72, 90
Perspective Lineads	195
"Philadelphia" Drawing Tables	214
Photo Paste, "Tec"	237
Photographic Frames	27-28
Pick Glasses	369
"Pittsburg" Drawing Tables	213
Planimeters	354-355, 358-359
Plotting Scales, Boxwood	173
Plotting Scales, Ivory	173
Pliable Rubber, "Tec"	250
Plumb-Bob Cord	296
Plumb-Bobs	296
Pocket Alt-Azimuth	352
Pocket Compasses	285-287
Pocket Leveling Rod	284
Pocket Magnifiers	368
Pocket Pencils	242-243
Pocket Pencils, Propelling	243
Pocket Rules, Boxwood	149-152
Pocket Rules, Steel	269
Pocket Sextants	356
Pocket Transits	292-293
Polar Planimeters	358
Poles, Ranging	283



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



Portable Air Meter	363
Portfolios	40
Powder for Tracing Cloth	13
"Prep" Drawing Paper, in Rolls	8
"Prep" Drawing Paper, in Sheets.....	3
Prickers	49, 72
Printed Cross-Section Paper, in Sheets	35-40
Prismatic Surveying Compasses.....	290-291
Profile Cloths	34-35
Profile Papers	34-35
Proportional Dividers	64, 99, 110
Protractors	174-182
Protractors, Amber	176-177
Protractors, Boxwood	174
Protractors, Brass	174
Protractors, Celluloid	177
Protractors, Draftsman's	181
Protractors, German Silver	177-180
Protractors, Ivory	174
Protractors, Paper	174
Protractors, Steel	181-182
Protractors, Universal Bevel	182
Punch for Eyelets	261

R

Railroad Pens	50, 91, 107
Railroad Curves	200-204
Rain Gauges	367
Ranging Poles	283
Reading Glasses	369
Recording Instruments	366
Refills	241
Repair Outfits, Tape	279
Reynold's Bristol Board	5
Roof Pitch Triangles	187
Rods, Leveling	282-284
Rolling Parallel Rules	163
Rotameters	154
Round Writing Pens	259
Rubber Bands	260
Rubber Curves	197, 199, 201-202
Rubber, Erasive	250-253
Rubber, Multiplex	251
Rubber, "Tec" Green	250
Rubber, "Tec" Pliable	250
Rubber, "Tec" Red	250
Rubber, "Tec" Sponge	250
Rubber Triangles	184
Rulers, Adjustable Curve	196
Rules, Parallel	163
Rules, Pocket	149-152
Rules, Rolling Parallel	163
Rules, Shrinkage	152
Rules, Slide	155-157

Rules, Steel	262-279
Ruling Pens	49-51,
72, 89-91, 104, 106-107, 120, 133, 136, 145	
Ruling Pen Tray	145

S

Safety Lamps, Miners'	297-301
"Samson" Drawing Paper, in Rolls...	9
Sandpaper Pencil Sharpeners.....	253
Saucers, Cabinet	226
Saucers, Color	226
Scale Guards	173
Scale Rules	151
Scales	164-173
Scales, Flat Boxwood	164-166, 169-170
Scales, Chain	165
Scales, Metric	165
Scales, White Edge	167-168, 170, 172
Scales, Triangular, Boxwood	171
Scales, Triangular, Metric	171
Scales, Triangular, White Edge	172
Scales, Triangular Metallic	172
Scales, Plotting	173
Scales, Paper	173
Scales, Guard	173
"Scranton" Drawing Table	210
Section Liners	148
Sectional Filing Cases	216-218
"Seneca" Drawing Paper, in Rolls....	8
"Seneca" Drawing Paper, in Sheets..	4
Sepia Solar Papers	22-23
Service Pattern Clinometer	291
Sextants	348-356
Shading Pens	260
Sharpeners, Pencil	255
Shields, Erasing	256-257
Show-Card Colors, Bissel's	228
Shrinkage Rules	152
Sight Compasses	289-291
"Sioux" Tracing Paper	14
Sketch Blocks	40
Sketching Paper	10
Slabs, Ink	225
Slide Rules	155-157
Slope Levels	353
"Solidhed" Display Cases	233
"Solidhed" Steel Tacks	235
Spline Weights	196
Spines	196
Sponge Rubber	250
Staff Heads	348
Stake Tacks	296
"Standard" Detail Papers	6
Steel Chains	281
Steel Erasers	254



TECHNICAL SUPPLY COMPANY

SCRANTON, PA.



Steel Pens	258-259
Steel T Square	192-193
Steel Tapes	262-277
Steel Tape, Clamp Handles	278
Steel Tape, Tension Handles	278
Steel Tape, Plumb-Bobs	278
Steel Triangles	186
Stop Watch	370
Straightedges	188
Strawboard Tubes	26
Students' Drawing Outfits	143-144
Sun Dials	356
Surveying Barometer	362
Surveying Compasses	289-291
Surveying Instruments	289, 302-348
Surveyors' Chain Tapes	273-277, 280
Suspended Pantographs	147
Swan Pencils	238-248
Swedish Ruling Pens	49-66

T

T Square, Amber-Lined	193-194
T Square, Steel	192-193
T Square, Vertical	161-162
T Square, Wooden	189-193
Tachymeters	306-307, 318-319
Tables, Drawing	207-218
Tables, Drawing Tops	207
Tack Lifter	235
Tack Lifter and File	253
Tacks, Display Case	233
Tally Registers	371
Tapes, Metallic	270-272
Tapes, Pocket	269
Tape, Display Case	263
Tape, Repair Outfit	279
Tape, Adhesive	12
Tape, Steel	262-277
Tape, Surveyors' Chain	273, 277, 280
"Tec" Blueprint Machine	30-31
Telegraphic Color Pencils	248
Tension Handles for Steel Tapes	278
"Tesco" Waterproof Drawing Ink	144a
Theodolite, Tunnel	322-323
Thermograph	366
Thermometer, Recording	366
Thumbtacks	233-235
Tracers	49
Tracing Cloth Powder	13
Tracing Cloths	13
Tracing Papers	14-15
Tracks for Blueprinting Cars	29
Transit Books	44-45
Transit, Brunton Pocket	292
Transit, Engineers'	302-305

Transit, Explorers'	324-325
Transit, Mountain and Mining	
.....	302-303-304-305, 318-319
Transit, Reconnaissance	330-333
Transit, Surveyors'	308-313, 320-321, 326-329
Transit, Verschoyle Pocket	293
Tray, Ruling Pen	145
Triangles	183-187
Triangles, Amber	185-186
Triangles, Embankment	187
Triangles for Roof Pitches	187
Triangles, Hard Rubber	184
Triangles, Steel	186
Triangles, Wooden	183-184
Triangular Boxwood Scales	171
Tripods	347
Tubes, Metal	26
Tubes, Pasteboard	26
Tubes, Strawboard	26
Typewriter Eraser	252

U

Universal Bevel Protractor	182
Universal Drafting Machine	159-160
Unprepared Blueprint Papers	19
"Utility" Drawing Stand	208

V

Vacuum Sun Frames	28
"Vegetable" Tracing Paper	15
"Vellum" Tracing Paper	15
Vernier Caliper	357
Verschoyle Pocket Transit	293
Vertical T Square	161-162

W

Watch, Stop	370
Water Colors	219-225
Water Colors, Boxes	220-221, 224-225
Water-Color Brushes	229-232
Water Glasses	227
Wax Crayons	247
Weights for Splines	196
Whatman's Papers	4
White-Edge Scales, in Sets	170
White-Edge Scales, Triangular	172
Wind Gauges	362-363, 365
Winsor & Newton's Liquid Colors	224
Winsor & Newton's Water Colors	223
Wooden T Squares	189-193
Wooden Trestles	209
Wooden Triangles	183-184
Writing Pens	259

Y

Y Levels	334-346
-----------------------	---------

LIBRARY OF CONGRESS



0 028 161 747 3